

分 冊

Separate Volume

出願番号 特願 2003-102206

[ST.10/C] : [JP 2003-102206]

分冊番号 3 / 9

CERTIFIED COPY OF
PRIORITY DOCUMENT

caaaattcag ttctcagtcg agatgtgctt tgacaatcag gtttcccttg gcttctcccc 1260
ctcccagcag cttccaggag cagaagtgga gctgcagctg caggcagctc ccg gatccct 1320
gtgtgcgctc cgggcggttg atgagagtgt cttactgctt aggccagaca gagagctgag 1380
caaccgctct gtctatggga tgtttccatt ctggatgggt cactaccctt atcaagtggc 1440
tgagtatgat cagtgtccag tgtctggccc atgggacttt cctcagcccc tcattgacct 1500
aatgccccaa gggcattcga gccagcgttc cattatctgg aggccctcgt tctctgaagg 1560
cacggacctt ttcagctttt tccgggacgt gggcctgaaa atactgtcca atgccaaaat 1620
caagaagcca gtagattgca gtcacagatc tccagaatac agcactgcta tgggtgcagg 1680
cgggtggctat ccagaggctt ttgagtcac aactccttta catcaagcag aggattctca 1740
ggtcgccag tacctcccag agacctggct ctgggatctg tttcctattg gtaactcggg 1800
gaaggaggcg gtccacgtca cagtctctga cgccatcacc gagtggaagg cgatgagttt 1860
ctgcacttcc cagtcaagag gcttcgggct ttcacccact gttggactaa ctgctttcaa 1920
gccattcttt gttgacctga ctctccctta ctcagtagtc cgtggggaat cctttcgtct 1980
tactgccacc atcttcaatt acctaaagga ttgcatcagg gttcagactg acctggctaa 2040
atcgcatgag taccagctag aatcatgggc agattctcag acctccagtt gtctctgtgc 2100
tgatgaagca aaaaccacc actggaacat cacagctgtc aaattgggtc acattaactt 2160
tactattagt acaaagattc tggacagcaa tgaaccatgt gggggccaga aggggtttgt 2220
tccccaaaag ggccgaagtg acacgctcat caagccagtt ctcgtcaaac ctgagggagt 2280
cctgggtggag aagacacaca gctcattgct gtgccccaaa ggaaaggtgg catctgaatc 2340
tgtctccctg gagctcccag tggacattgt tcctgactcg accaaggctt atgttacggg 2400
tctgggagac attatgggca cagccctgca gaacctggat ggtctgggtc agatgccag 2460
tggctgtggc gagcagaaca tggctttgtt tgctcccatc atctatgtct tgcagtacct 2520
ggagaaggca gggctgctga cggaggagat caggctctcg gcagtgggtt tcctggaaat 2580
agggtaccag aaggagctga tgtacaaaca cagcaatggc tcatacagtg cctttgggga 2640
gcgagatgga aatggaaaca catggctgac agcgtttgtc aaaaaatgct ttggccaagc 2700
tcagaaattc atcttcattg atcccaagaa catccaggat gctctcaagt ggatggcagg 2760
aaaccagctc ccagtggtg gctatgccaa cgtgggaaat ctccttcaca cagctatgaa 2820
gggtggtgtt gatgatgagg tctccttgac tgcgtatgtc acagctgcat tgctggagat 2880
gggaaaggat gtagatgacc caatggtgag tcagggtcta tgggtgtctca agaattcggc 2940

cacctccacg accaacctct acacacaggc cctgttggct tacattttct ccctggctgg 3000
ggaaatggac atcagaaaca ttctccttaa acagttagat caacaggcta tcatctcagg 3060
agaatccatt tactggagcc agaaacctac tccatcatcg aacgccagcc cttgggtctga 3120
gcctgcggct gtagatgtgg aactcacagc atatgcattg ttggcccagc ttaccaagcc 3180
cagcctgact caaaaggaga tagcgaaggc cactagcata gtggcttggg tggccaagca 3240
acgcaatgca tatgggggct tctctttctac tcaggatact gtagttgctc tccaagctct 3300
tgccaaatat gccactaccg cctacgtgcc atctgaggag atcaacctgg ttgtaaaatc 3360
cactgagaat ttccagcgca cattcaacat acagtcagtt aacagattgg tatttcagca 3420
ggataacctg cccaatgtcc ctggaatgta cacgttggag gcctcaggcc agggctgtgt 3480
ctatgtgcag acggtgttga gatacaatat tctccctccc acaaatatga agacctttag 3540
tcttagtgtg gaaataggaa aagctagatg tgagcaaccg acttcacctc gatccttgac 3600
tctcactatt cacaccagtt atgtggggag ccgtagctct tccaatatgg ctatttgtga 3660
agtgaagatg ctatctgggt tcagtcccat ggagggcacc aatcagttac ttctccagca 3720
accctgggtg aagaagggtg aatttggaa tgacacactt aacatttact tggatgagct 3780
cattaagaac actcagactt acaccttcac catcagccaa agtgtgctgg tcaccaactt 3840
gaaaccagca accatcaagg tctatgacta ctacctacca gatgaacagg caacaattca 3900
gtattctgat ccctgtgaat gaggatagga gctggaaaact caattagtcc tctgtgacat 3960
ttactggagg gtggaacatt cttctgtcgc ttgaagcaga actcattcaa tcaataatt 4020
taatttctct gactagtata tgggtaacaa atgaatatgt ctgaacctca gctataatac 4080
tttctactac ctttgcaagg agatgggata ggaacaatca ctcagaggag gcgttgcatg 4140
ggcagggtca tagggggaag aaaggtgggt tagctgtttt atttagccat tcagggggct 4200
ctccagagag gagacggtgg tagagggtga actagagaag ataagaatgt cttcctaggc 4260
cggatgcggt ggctcacgcc tgtaatccca gcactttggg attgagaggt gggcggatca 4320
cttgagggtca ggagttcaag accagcctgg ccaacatggt aaaaccgctc tctactaaca 4380
atacaaagat tagcctgggtg tgggtggcacg ggccgtgaat cgcagcccct tggaaggcca 4440
aggcaggaga atcgccctcaa cactggagggt ggaggttgca gtgagctgag attgtgccac 4500
tgactccag cctgggcaat gaggcaagac cctgtctcaa aaaataataa ataataataa 4560
taataatgtt tttctagagt ttcagtctaa gggaaaatgt gatttagggc tttggaaatt 4620
ggctaaaaaa ataaaaatgg aaaagaaaat c 4651

<210> 721

<211> 3544

<212> DNA

<213> Homo sapiens

<400> 721

ccagccagtc	cgtcgatcca	gctgccagcg	cagccgccag	cgccggcaca	tcccgtcttg	60
ggctttaaac	gtgaccctc	gcctegactc	gccctgccct	gtgaaaatgt	tggtgcttct	120
tgctttcatc	atcgccctcc	acatcacctc	tgcagccttg	ctgttcattg	ccaccgtcga	180
caatgtaagt	ttcctttcct	gccactcacg	cagaaacctg	ggtcctgcag	tcaatagaag	240
tgggttgtat	tggtctgttc	tcattgctgct	gataaaggca	taccagagac	taggtaattt	300
ataaggaaaa	tgaggtctaa	tggactcaca	attccacatg	tctgggaggc	ctctgcagaa	360
ggcaaaggag	gagcaaagcc	acatcttaca	tggtggcagg	caagagagcg	tgtgcagggg	420
aactgccctc	tataaaaccg	tcagatctcg	tgagacttat	tcactaccac	aagaacagta	480
tgggataaac	ttggtcccat	gattcagtta	cctcccaccg	ggtcctccc	acgacatgtg	540
ggaattatgg	gaatacaata	cgagatttgg	gtggggacac	agccgaacca	tatcacaggt	600
tgagaaccct	gccaaagttc	tcaatgttga	acctgccaa	gttcaaccac	gattcggggg	660
tgtccccct	gcgaaggcac	acccatcttc	tgaccaagg	gctgaggact	cttggcctaa	720
atgtgaaggt	tcaggccgtc	ccatgttcag	gttttggtgg	caggtcctgg	caggcagggg	780
cgtttgtcct	cccatctgtg	attctttcat	agagcctggc	tctaggaagc	cctttgagga	840
tgttgtgtga	cttcagcttt	cctctagatc	agagttctca	accttgccac	tattgtcatt	900
ttgggctgga	taatcctttg	ttgtaggggc	ctccctgtgc	attgtaggaa	gttcagcaac	960
gtgtctggcc	ttatctgcta	gatgcagtag	cacccccacc	cctggttatg	acaatccaaa	1020
atatcttcag	acattgttaa	atgtcccatg	gagaacaaaa	tcaccctctg	ttgaggaccg	1080
ctgccctaga	tcttccaggt	gacccatccc	aggtgacctc	tgcccccaac	ccctgacacc	1140
tccttatcaa	ccagggtccc	ttgttgctag	cccaccgggc	catgtcctcc	ccagcagagc	1200
tcatgcatgg	aactttccag	actctacctc	tgcccctatg	aaaaatttaa	tgtttccctt	1260

tagtatccag cttgcagcca tatggcagga atgtattgga tacataacct cttggcatag 1320
attaatatcc ctccaaacag ggagtgacat cagggaagct tcttaacagc ctatacactg 1380
ttccaaagac ctggcttcca tcctgctcat tttagactgc agagataatt aaagggcaga 1440
aacattgctc agaaagccaa aaagtacacc atacgagtgg ccaccaactc tgcctacata 1500
tacggctccc gttgatggat catcatgaca atagtaacat aaactataat gcctgtcact 1560
tagcgatcac tgtggccctt ttatgcatgt catctcatgt gatccccacc ccagctgtac 1620
caggtagggc accgacatct ccttgcaccg gggttacaggt gaaggaactg agcctcaggg 1680
ccattcgggc acttggcaga gtttacagtg cagtaagcag cagagccagg atttgagcca 1740
ttccagaggc tcctggctcct agagcctgtc aggggagatg agcacaataa tcgcatttgg 1800
gttctggagc ttcttgctga gctgctgtga gtggcctggg cagggaccac attgctgcta 1860
tggattatag cagtggtcac caacgttttt ggcaccagga accggtttca tggaagacaa 1920
tttttctaca gactggggag ggggcattgc agggggatgg tttcagaatg attcaagtgc 1980
attacattta ttgtgcactt tattattatt acattttaat atataatgaa ataattatat 2040
aactcgtcat aatgtggaat cagtgggagc cctgagcttg ttgttctgga ctagacggtc 2100
ccatctgggg gtgatgggag acagtacag atcatcaggc attagagtct cataaggagc 2160
gtgcagccta gatccctggc atgcacagtt cacaagggtg aactcctat aagaatctaa 2220
tgccccctggt gacctgacag gaggcagagc tcaggcagta atgtgagtga tggggagcag 2280
ctgtaaatac agatgaagct gccttactg gctgctcacc tcctgctgcg tggcctgggt 2340
cctaacaggc tacagacagg taccagtcca tggcccatgg gttggggagt cctagattat 2400
agtatttggg cccaccattc caggagctca ctgtgaaata aatgggaccg aatgttcttt 2460
tagaatctcc tttttctatt tcttcccatc tagtcctttg ggatcctgaa aagggtccag 2520
acttagtgaa aaggatagac agacattagg ggcaggaaaa ccatcagctt tagtgaatcg 2580
tatccagcac ccccagggtg tattatcatg gcacatacta agaagatgca gatggacttt 2640
ttgtccatcg gtgagtctga ggggtattcat tatgtatttg gaattgtgct tggcaactgg 2700
aaagtagaag gaaggccatc ttgggcagtg ggggaagggc agcagccacc aaagcacaca 2760
gggaaatgaa tgcttttggc tgaagacagg agaatcttgt ctggatcatcc catccattgc 2820
aatgtttgtt tgtttgtttg tgacggggtc tctctctgtc acccaggctg gagtgtagt 2880
ttgcgatcat ggctcactgc agcctctact gcccaggctc aggcgatcct cccacctcag 2940
actcctgagt agctgggact acagtcacac accaccatgc ctggctaatt tttttgtatt 3000

tttttgtaga gatgggttgc cccggctggt ctcaaactcc tgggctcggg cgatcctccc 3060
 gcctcggcct cccaggggtgc tgaaattata ggcatgagcc actgtgcca cccctgactg 3120
 ctattacttc cagcaactca gcctcatctt ttctcccata ctctctgagg gcctggacca 3180
 cctcttatcc tttgggagaa agtagcaggg catcacctgg agccggttag aaatgcagaa 3240
 tcctggccag gcgtggtggc tcacgcctgt agtcccagca ctttgggagg ccaaggcggg 3300
 tggatcgctt gaggtcagaa gtttgagact agtccgacca acatggcgaa accctgtctc 3360
 tactaaaaat acaaaaatga gccaggtgtg ctgtgcatgc ctctaaatcc cagctactcg 3420
 tgagactgag gcggggagaat tgcttgaacc cagtatggga gggttgcagt gatccaggat 3480
 catgcatgcg actccagcct gggcaacaag agtgaaactc tgtctcaaaa aaaacaaaaa 3540
 aagg 3544

<210> 722

<211> 4059

<212> DNA

<213> Homo sapiens

<400> 722

tgttttgtgt gtgcatgcat gtttagttac tgttgttacc tgcgcttggt ttgtgtgtgt 60
 gtgcatgtgt gtagttacca tgtgtgcatg cgcatgtgtg ttaccgtgtg tgttcgtgca 120
 cttgtgcgtg cgcatgtgtg ttttagttact gtgtgcctgc gcttgttttg tgtgtgcgcg 180
 cacatgtgtt tagtaccgtg cgtgtgtgtg tgtgcatggg catgtgtgtt tagttgctgt 240
 gtgcgtgtgc ttgttttgtg tgtgtgcacg catgtgtgtt tagttactgt gtgcgcgtgc 300
 gcttgttttg tgtgtgtgca tgcatgttta gttaccgcgt gtgcctgcgc ttgttttgtg 360
 tgtgtgtgca tgtgtgtggt taccatgtgt gcatgcgcat gtgtgttacc gtgtgtgtgc 420
 gtgcacttgt gcgtgcgcat gtgtgttttag tgtgcctgcg cttgttttgt gtgtgtgcat 480
 gttattgtgt gcctgcactt gttttgtatg tgtgcgtgca tgtgtgtagt taccatgtgt 540
 gtgcatgtgc ttgttttgtg tgtgcacgca tgtgtgttta gttagtgtgt gtgtgcactt 600
 gtttgtgtgt acacgcatgt gtttactgtg tgtgcacaca cttgtgtgta cgtgcatgtg 660

tgattaccgt gtgtgtgctt gttttgtgtg tgtgcgcgca catgtgtgtt tggttaccgt 720
gtgtgtgctt gttttgtgtg tgtgtgtctg cgtgcatgtg tgtttaccgt gtgtgctctt 780
tgtgtgtgtg cacgcatgtg tttgtttacc gtgtgtgtgc gtgcttttgt gtgtgtgtgt 840
gtgcacgcat gtgtggttac cgtgtgtgtg cttgttttgt gtgtgtgcg acatgtgtgt 900
ttggttaccg tgtgtgtgtg tttgcatgtg tgcatgcgtg cgcttgtttc cattttgaaa 960
gtgtgcaatg ctcccttggtg tgttcgggct ctttgatgtt tgtagtgggc accgaccagc 1020
tgcaatttcc agtaacaacc atccctggat ttctcgccgg gtggcccagg ttctgagtgt 1080
ttctggagcg gcctagcatg accagccccc tgcaccatct ttccagcccc accagaagcc 1140
tccatggcgc catcagtagg agccgagggc gctcacatga gagccaggca cagcggccag 1200
gaagtgcagt ccgaggctct gtgaggacgg cccctgcct accgggtctc ccagggtgga 1260
cgagggcacc ccctcagagc gccagatcac tgtccagaca cttggtcttg tccctgagcc 1320
agcttctctg gttacagtgc ctcagaagtg ctaagtcccc gggatatatc tgtegaattc 1380
aaaaccagaa gctttctgta gggtttccca aaagcaggag tagctaggag gacaccacgc 1440
ctgccccggt tgtcagggtg acttcgtgcg ctgcaaagaa agtaagcgca agttcttctc 1500
tccaccctga aagcatccgt ttcacagacg attctaacc tccctggagg gcgtgaggtg 1560
gacaccaccc agggccgtgg gaaaagagcc tccaaatcct agacatttgc tcgtcccat 1620
tccataacca caggtgcctt tgtctttcca gctgacttcc acaggtttgc agaaatgtac 1680
cctgccttcg cagaggaata cctgtaccgc gatcagacac atttcgaaag ctgtgcagag 1740
acctcacctg cgccaatccc aaacggcttc tgtgccgatt tcagcccgga aaactcagac 1800
gctgggcgga agcctgttcg caagaagctg gattaggacc cagggttgcg gagagacgcg 1860
gcccctcccg cgtggacatc accgccatga gcctctttgc gagtgacctc tgggctccgc 1920
tcctcactcc tgctgtacag gcactgtctt cagcccagat tccaggggcc tcgggggctg 1980
tttgtatctt gttcctttgt gaagtgtgtt gcagaaccga cgcttactgt gcgagaatcg 2040
gagggcgcg acgcggatcc cccgcctggc ctggaccccg tggggtcagg ttccctgccg 2100
ggcggggggc accggtgccg ccccggtgtc tcccacgggg ccctggtttc gagtctctgt 2160
cacagcctct tccggcggca gcgtgcaccg ggcgggcctc cgtgcacact cagcacacgc 2220
ctgccacaca gcgtgcgctt gcgtgtcact ctggcacgaa acctgtctgc ctctgtggat 2280
ccacagcctg gcagagccga gccgtcacct gatttttcag tgtttctacc tgtgtgctgg 2340
agctcatgag tattttataa actccattta ggtacttcag gaaacatgca gcatttttta 2400

aaaaatgaaa attgtttttc tacttcattt ttccttttag agtcaaagga tatttattta 2460
taggcctttt tttttttaat atagaatctg aggctgtttg ggctttgact taaatttcca 2520
tcaggcctct ctccagcagg taatccctct ccttccgctg ggtcccctgg ggaggtgtga 2580
actcaagggc ctagcccaa aacacttttt ctgcttttct taatcctttt ccagtcccct 2640
ctttttttat aaacgttggc agtttgatgt ttctgtttcg gcataacgta atccatttca 2700
ctgtagccta aactccagtc cgaggttgga tattgttcaa atgagcaggg cccgagctgg 2760
aagcgcaagg cagccgccgc cgtgccgctc ctcccttgcc ctcaggccag gtccctgctg 2820
gaagcggctg catcttctg tcagccctgg ttccatggt gactggcgctc acgcagccac 2880
ccgagtatgg ctgaccttc tgcagagaga ggagccgcag tcttttgctt gtggaaggag 2940
acgctgggct gtgcggtgcg gagggatgatg aggatgtctg gtgacagccg tgcggacacc 3000
actcctctct gcagcactgc ctcccagcgc cagggtcgcg ggcacatccc actgagagcg 3060
ggggtcctgc cccatcttag agtcaaaggc agaggggctt ccaggccctg gatggggat 3120
tttggtgtca cctgaagtcc ctctgacatc acctgtttc atcatttttt atgacagaat 3180
tagaaacca tccttcaagc acaataatca tcacagactt gagtttgctt cctaaagcaa 3240
aggctccggg tttgtttgga aaatTTTTTT gatttctgaa atgaattgat ttttatattt 3300
ggggcatctc tatagaaagt gaccaccaag gccagtaagt acgggaaaaa atgtttacta 3360
acttcctcag agattcgtga tacgcgtttc tccactgaca gacatttaa aacaaccttc 3420
agctccgttt caatcaatca cctcgacttg ttttttagca tggacactgc cagcaggaca 3480
gacagggatg gagtaaaccg aagtcaattt cagggtctctt ggcgtgttgg acacagaaga 3540
aatcctagtg cagcctttgg tagctaacag tcaactgattt tataattgga gaatgcgtaa 3600
agattcattt ttcaaggaga agagcctgca aatggccaat gaaggaggta aataaactaa 3660
gatattccga gggaaggac ccaggccacc tcccttccgc aggtttgcag atgaagggtt 3720
ttttgaatga aatgccactg tgcattttca gaaaaaaaa atctctgata aacagacttt 3780
gaatggatgt ttgttctcc tgattctctt ttctcttcgt ggcgacttag agttggcgga 3840
tattcggaac tgtgaatgta catagcgttg agttaaaccc cttgtgtgtg agacaggacg 3900
cagcggggcc ctggtgacct gggggccaga cccgtgggca ggtggggcat gggccctggc 3960
ctgcggggac ctgctgggggt gtgagggcag agggagggtt gccatgaagg aacttgggat 4020
tttcaatgga ataagtaaaa cataaagtct atacttggg 4059

<210> 723

<211> 4045

<212> DNA

<213> Homo sapiens

<400> 723

```
agcactgttt aacatagctc cagatttatg aaaatgccac agcaaagtat tttagttcag    60
gaaggtgtgt gcaggtcaaa gccctcattt tacagagacg gaaactgaca cggaggggcg    120
tgtggcagaa ctggcatcaa cactctggtc ttctgattcc cgggacggat cttegacttc    180
taattgggcc gtgcctcctt gcaaaactgt gtgtgcatgt gggttttgtt cagaaaaaag    240
gatggccttc tcgaaggacc catggctttg gctgcttagc ctgctcttgc ccattccgga    300
ttcaaggctt cgtcacccgt ctcccggaca gtttgaatgc agcgagaatg aacacagagg    360
tgcttggttt ctggcaagcc ctgcctttca ccagcctctg tggcacctc tttactgtga    420
ctcacacaaa gcccagaggt ttctgttcac ttttaagtgc agaaaagtgc tgtgtgcct    480
agtctatagg gaggcttcct ttgcacatcc tgtcttcacc ccgtgtcttt cctaccccag    540
gggttcagcg ggaggcccag ggaagggaca gcctctcacc tgtttggcca ccattgtgat    600
ccttctctca gctgttgctg ctcttttggc taagaccagc ggcctcaggg ccctctgtgg    660
gcaggatttc tgacatgcgc tccctcctgg ggtcctggga gtgggggggtg tagaggtcgc    720
ccatcccggc ccattctcct tgtatgagag ctcccctcca cctcaggtcc agcccccagc    780
tctgtctgct gtggcctccc cagagggtg ccctctcggt gggggactgg caagatggct    840
cctttaatgg atcccacgtg acccagggga gaccacact tgctggccac gccaggccaa    900
gggaatacag cactccata gccggccccg cctctgcttc cttttcttcc ccctgccctg    960
gctcatgggc acgggcacac aggccagtct gctgcataag caggcgtcct ctgggaaggg   1020
atgcctcttc tcttgaagac atcccactcc cccgcaaaca gccctttcca gcccacatcag   1080
acatttcagg gaattgaaat gaacatgcgt agtggttagg tgcacagtgt ctggagctat   1140
cccttcagtg gctacttcac gcctctgtgt ttcaattcac gcatctgcga aatgggttaa   1200
taataataat acctctctca tgggtttgtt gagaagattg cataggttag tgaatgaaaa   1260
acccttagca aagtgccctg tatgcaataa gccttcata aacaactggt attattatta   1320
```

ttattattga aatattacat tattagtggg agtaataata atagcagtag ttatttttag 1380
taatagtaat ggtgaccagg tccactgggc aagagaactg tatccctgaa cttggcccag 1440
cccaattcaa cccaatgcag tgaacattta tttattttatt tattttattta tttattttatt 1500
tattttattta ttttgagaca gggtttctact ctgtcgccca ggctggagtg cagtggcgca 1560
atctcaggtc gctgcaacct ctgtctccca ggttcaaggg attctcctcc ttagcctcct 1620
gagtagctgg gattacaggc acccaccatc actaatgtat ttttgtattt ttgtattttt 1680
agtagagact gggtttctac atgttggcca ggctgggtct gaactcctga cctcaagtga 1740
tctgcccacc tcagcctccc aaagtgtgtg gattacaggc gtgagccacc gcgcccagcc 1800
tgcagtgaac attattaagg attcaccat gtgtcagct ctggactaag cactgtgaat 1860
gtggtttctg cggaggaagc atgcgggaac agccatcccc tcccgactgg aagagcacac 1920
agatgctgga gtgagtgagc ctgacctggg ttcaagtctc acctctgctg ctcacatct 1980
gcaggcttgt aaaagttatt tctcctctct gagcctccat ttctttcata tagaatgggg 2040
atctgtgttg cctgccatga gggttgttgt gaacatccaa aggaaattaa gcaggagtac 2100
aatcactttg gaaaactgtt tggcagtgtt gactgatgct gaacatgtgg gtacctcagg 2160
accagcagt cccactgcag gggacacact cagcagatat gtaccacgt gcaccaggaa 2220
atacctatga gaatgctgat gtgttatcta tggacatcct acgaccagc atttccgctc 2280
agcacaaatg catacgtatt tgcaccatac gtgtcctcta gacacatatg agaatgttct 2340
agcagcatga ctcacatggc accaaactgg aagttcccag ttgtggatca gcagaggaat 2400
agatggatag aggtggtgta tttctttttc tttctttttt tttttttgag acagagtctc 2460
gctctgtctc ccaggctgga gtgcagtggc gcgatctggg atcactgcaa gctccgcctc 2520
ccaggttcac gccattctcc tgccttagcc tcctgagtag ctgggactac aggcacctgc 2580
caccatgcct ggctaatttt ttgtattttt agtagagaca gggtttcacc gtagccagga 2640
tggtctcaat ctctgacct ggtgatctgc tcgcctcggc cacccaaagt gctgggatta 2700
cagtcgtgag ccaccgcgcc tggccgaggt ggtgtctttc tataatagca cactacataa 2760
caacaagggt gaaaacatca accacacata cagaatgggt ggctctcaca aacactcggt 2820
ggaaaaagcc agacgcagga ggagattact gattgaccct atttatttaa cttaaaaaat 2880
gggtgaaatc agtctatgct gttagagggt aggacagtgg ttcttcccga gggcgggagg 2940
gttcatgtat ccttaaaggg gtcacgggtc aggggctgat gggcggctgt cacattctga 3000
ttcttcatct gggtgccagc tctgcagggt tattcactgt gaacattcat caagctgtgc 3060

```

tttttgctct atgtatggta tgtttcaata aacagtttag ttacaaaatt aagtgcata 3120
acgcatggac caccatgggc ggcactgaat gtgtgcttac tggtattatt tttattttct 3180
ttttctcctc agcacctgaa gtgacctgga atcagtgaag ccaaaggagc tggcagctctg 3240
ccctgcaggg agtaccgacc tatcccagtt gtgtgaggct gcgagagaaa gggagtgcat 3300
gtgcgcgcgt gcatgtgtgc gtgcgtgtgt gttcacgtgt tctcgtgcgg gcgcgtgagt 3360
ggctctcaaa cgagggtccc gatccccggg gcggcaggaa gggggccgac tccacgtgt 3420
cctttgggat gatacttga tgcagctctt gggaccgtgt tctgcagccc agccttcctg 3480
ttgggggtggg gcctctccta ctatgcaatt tttcaagagc tccttgacct tgctttttgc 3540
ttcttgagtt gtcttttgcc attatgggga ctttggtttg acccaggggt cagccttagg 3600
aaggccttca ggaggaggcc gagttccctt tcagtaccac ccctctctcc ccaccttccc 3660
tctcccgga acatctctgg gaatcaacag catattgaca cgttggagcc gagcctgaac 3720
atgcccctcg gcccagcac atggaaaacc cccttccttg cctaagggtgt ctgagtttct 3780
ggctcttgag gcatttccag acttgaaatt ctcatcagtc cattgctctt gagtctttgc 3840
agagaacctc agatcaggtg cacctgggag aaagactttg tccccactta cagatctatc 3900
tcctcccttg ggaagggcag ggaatgggga cgggtgtatgg aggggaggga tctcctgcgc 3960
ccttcattgc cacacttggt gggacatga acatctttag tgtctgagct tctcaaatta 4020
gctgcaatag gaaaaaaca aattg 4045

```

<210> 724

<211> 4545

<212> DNA

<213> Homo sapiens

<400> 724

```

gttgtgtgtt tgagagaaaa ataagcccat aaaaacattc taaccttcag attaagtgtt 60
ttctgcattc tctccagcg gatctgattc ctgttctgaa gaattgaagt tgagcatcgt 120
tagttaaatt cagctgctgc ctgactgtat accacagcaa aggctttgga aacatttttc 180
agttaaaaca ataatgactt tcttggagtg taatcccagt ggaggctgtt ctacgtatag 240

```

cctgaaagaa tacttaacta ccatacgcaa ttctgcagag accttgtaaa aatcacactt 300
tacaccaaac aactgagtga ttctgaattg gttgggggaa tcttagttgt agatatcaat 360
tcaccttctt gaagattcaa ccaactgctac tcagagctgc tgctgaaata ccatgtctaa 420
gaactcagag ttcattcaatc tgtcattttt attagatcat gagaaggaaa tgatcctggg 480
cgtcctaaag agagatgaat atttgaaaaa agtggaggac aagagaataa ggaagctgaa 540
aatgaactc ttagaagcaa aacgtagaag tgggaaaact caacaagagg ccagcagagt 600
tttgtttcac tgtcacagaa acctgggcct aatctttgac cggggagacc cttgtcaggc 660
ttgtcactg agggatatgca gggagtgtcg agttgcaggc cccaatggca gctggaagtg 720
cactgtctgt gacaaaatcg cgcagctaag gattataact ggtgagtggg tttttgaaga 780
aaaggcaaaa cgtttcaagc aagtcaatgt tctcggcact gatgttgtcc gacagtccat 840
tttaagaaga agtccaggag ctgaagaagt acagagccaa gagcaaacc gccaggatgc 900
agaaaagtca gacacttcac ctgttgctgg gaagaaggcc agccatgatg ggcccaagag 960
aaagggattt cttcttagca agttcagatc ggcaaccaga ggagaaatca taactcccaa 1020
aactgacact gggcggagct atagcttgga cttagacggg caacattttc ggagttttaa 1080
atcacctcct ggttcagaca ggggaagcac tggctcatca gatctcaatg accaggaacc 1140
tggtcctagg acccgaaga gcagtcggag caatggtgtg acccaggcac tcagagttca 1200
ccagcccaa gcacacgaac tgtgacctca gtcatcagta gagagtatgg ttttgaaaat 1260
tccatggatt tggctgctat tgaaggatc tctcaggagc tcacaaagag tcaccgcaga 1320
aacacttctg gcacacctc catagcagtg tctggaacct ctctctctc agatcagagt 1380
cgatctgagt tagatttgag tgagtcattt acagaagact cagaggatac tgtaagcata 1440
agaagcaagt ctgtccctgg ggcttttagac aaggactcct tggaagagac tgaagaaagc 1500
attgatgcct tagtgtctc gcagttatct acaaactc accgtctggc aagtggccta 1560
tcaactacca gccttaacag catgatgagc gtttacagt aaacgggaga ctatggcaac 1620
gtgaaagtca gtggtgaaat cttctccat atcagctact gctacaaaac tggtgggctg 1680
tacatttttg tcaagaattg cagaaatctg gccataggag atgaaaagaa acagaggaca 1740
gatgcttatg tcaagtcata tcttcttct gacaagtccc ggaacaacaa gcgtaagacc 1800
aaaatcagaa caggcaccaa tccagaattc aatgaaacac taaagtacac tatcagccat 1860
accagctgg aaacaagaac tctgcagctc tcagtctggc actatgatcg atttgacgt 1920
aatagcttcc tcggggaagt agagattcct tttgactcat ggaactttga aaatccaact 1980

gatgagtgggt ttgtgcttca acccaaggtg gagtttgctc ctgatattgg ccttcaatac 2040
aaaggagagc tgacagttgt tttacgttac attccccag aagagaacct gatgcttcca 2100
ccagaacaac tccaaggaaa taagactttt aaaaaggga agaagaagga gtcacctgta 2160
atctctggag gaatactaga agtggttcac aaagaggcaa agaatttgac agcagtgaag 2220
tcaggaggca cttctgatag ctttgtgaag ggctacctgc tccctgatga tagcaaagcc 2280
accaagcaca aaactctgggt aataaaaaag agtggttaacc ctgagtggaa tcatacatc 2340
atgttcagtgc gcatccatcc ccaggatata aagaatgttt gcctagaact tactatctgg 2400
gacaaggagg ctttttccag caacatcttt ctgggaggag ttcgtttgaa ttctggaagt 2460
gggtgtgagcc atgggaagaa cgtggattgg atggactctc agggggaaga gcagcgcctt 2520
tggcagaaga tggccaacaa ccctggaact ccctttgagg gtgtactcat gcttcgttcc 2580
agcatgggaa aatgtaggct ctaaaggac cagttctcca agaattgaggc caccaggacc 2640
tatctggctg tcttttccca ccattagcaa actgagacct gagattctgc ttccctgcca 2700
tttctcacct gacagtgttg ggacatgagg ggagagatgt cagtagtatg aacatttagg 2760
gtcttgctga gtgcctaaaa aacatatatt tccatccaat caaggccttc ttgattggat 2820
gatagaaagt gtactacttg tctgtcaac aagcaaattg tgcaaaggct tatagggttt 2880
atgccataaa agaaatggca caagcctcca tttgctaatt ataagttact ttagatttcc 2940
tcaaatcctt tgaagagaaa gaggaccact gagaaggtag atcacttgaa aagtcagaag 3000
aaaggatact ggccaacttt tactcacct aggaatccac atgatctcaa gaaggcatgg 3060
tggagatgggt tgcttgagca aggggattgt cctgttatgt cagcaaactt gtggattaac 3120
caagtagtat ttcaagatgg attgacaggc ctttctatga ttactataga atttatcatc 3180
taaatacagtt tacttttttag aacaaagaga gctaaataac tacatcagaa cgattgatgt 3240
tgattagaat tgacctggga aaattgggat gtagggtcac cctactgatg acctaagaga 3300
gctctgtttt aaacatttat ttataaaaat gttctaagcc attactaaa aggaaatgag 3360
atataatgggt caattgatat accttttcac attgtgttca ctgacgagac tagtttagtt 3420
aactattgtc acaataatgc tgaatgaaaa aacacaccaa atgtcagtgg cttaaaatga 3480
ccatcctttt tctcacagtt atgaagattg gctatggcac ctctgcttcc tgctataggc 3540
ctgaggttct agggcttctt atgcctcatc ctctttaagc caaagggata gccagagcat 3600
cttgatggca gaagtgcaat aagatgagcc cactgctcg ggtacatttt cagcccctgg 3660
ttgtgtcatg tctactgata tctcattgggt caaaggaagt cagagggcca agatgaagag 3720

gcagggaat atgcactgcc cacagtgaag ccatgacaag agtgaggatg caggaaggca 3780
 tgaagaattg gggccaacag ttcaatctac cataccttct ctcacctgga attccagatg 3840
 cttgagctac gaaacttaga tgcaaagaaa gttaaagcta gaaggaacct caggcccagt 3900
 tgctcathtt gcagattcca aatgtgaatt tcagagagct gagataactt gccaaggcc 3960
 atatagaggc tgtgactaaa tctggactta aatccagact atcaatctta ggccagtgtt 4020
 cttttttcaa tatagtcctt ggcataatgc tatgcttatt aggtagataa aagggttat 4080
 gtcaagaaat ttggagcaga gtctgattac ttgagcatga acataccga ccaaggatat 4140
 ttctggagtc atattctagc ctctgagctc attttttcat gcgagttcat ataaaatcct 4200
 cgaaagtta gaaactaggt tttagtagta acggagctag aatcatcttc gggcttattc 4260
 ctgctagtgt ttccatattt ctagatttca tcttgaattt tgaaaactga tttagaata 4320
 tatttagtat tattattagt aagggaatac gcaatccagt ttcaatttta ttcagaagta 4380
 ggtcacctaa ttctagaaaa tggttattag tctagtgtcg cttagcaagg tacttaaaag 4440
 aaaatctgca catatccttg tgctgccctt cttaaaaaca gaaaacaaa agtgtaagat 4500
 catcattgct tcccacatag gaaaaataaa atgtcttcag acttg 4545

<210> 725

<211> 3812

<212> DNA

<213> Homo sapiens

<400> 725

agcgaagttt ggcggaacat ggcggaagcg tctggggcac gcaggagcgc ggggcggcgg 60
 cggccggagc ccgaggagct gtagcagcct tagtcgccgc cgccgcgggg cgaggtcgcc 120
 gccatggccc gctggatccc gaccaagagg cagaagtacg gggttgcat ctataactac 180
 aatgcttctc aagatgtgga gctctccttg cagatcggtg acacagttca catcctggag 240
 atgtacgagg gttggtacag aggatatacc ctccaaaata aatctaaaaa gggcattttc 300
 cctgaaacat atatcattt gaaagaggca actgtggaag acctggggca gcatgaaacc 360
 gtgattcctg gcgagctccc cctggtgcag gagctcacgt ccactctgcg agaatgggct 420

gtcatctggc gaaagctcta cgtgaacaac aagctcaccc tcttccgcca gctgcagcag 480
atgacgtaca gcctgatcga gtggcggtcc cagatcctgt ctgggacgct cccaaggat 540
gaactggcag agctcaagaa gaaagtcaca gccaaaattg atcatgggaa cagaatgctg 600
gggttagatc tgggtggtgcg agatgacaat gggaacatcc tagaccctga cgaaaccagc 660
accattgccc tcttcaaggc ccatgagggtg gcctccaaaa ggattgagga aaagatccaa 720
gaagagaagt caatcctgca gaacctgat ttgcggggcc agtccatctt cagtaccatc 780
cacacctatg gcctctatgt gaacttcaag aactttgtct gcaacatcgg ggaagatgca 840
gagttgttta tggccctcta cgaccagac cagtccactt ttatcagtga gaactatcta 900
attcgttggg gcagtaacgg gatgcccaag gaaatagaga agtcaataa cctccaagca 960
gtgtttacag accttagcag catggacctc atccggcccc gcgtcagcct tgtatgccag 1020
attgtccgcg tgggccatat ggagctgaag gaaggcaaga agcacacctg tggactccga 1080
agaccttttg gagtggcagt gatggatatt actgatatca tacatgggaa ggtggatgat 1140
gaagaaaagc agcattttat tccctttcag caaattgcga tggaaaccta catccgccag 1200
aggcagctca tcatgtcgcc ttgataaca tcacacgtga ttggggagaa tgagccactc 1260
acttcagtct tgaataaagt gattgcagca aaggaaagtga atcaciaagg gcaaggcctt 1320
tgggtatcct tgaagctctt gcccggtgac ctcaccagg ttcagaagaa tttttcacac 1380
ttggttgata gatcaacagc aatagcccgg aagatgggct ttcttgaaat catactgccca 1440
ggagatgttc ggaatgacat ttatgtcacc ctgatccacg gtgagtttga caaagggaag 1500
aagaagacgc caaagaatgt ggaggtgacg atgtctgtgc acgatgagga gggcaagctc 1560
ttggagaaag caattcaccc tgggtgctgga tatgaaggca tttcagaata caaatcagta 1620
gtctattacc aagtcaagca gccctgttgg tatgagactg tcaaggtatc cattgctata 1680
gaagaagtca cacgtgtca tataagattt accttccgac acaggtcatc tcaggaaaag 1740
ataaatcgga gcgagcattt ggggtggcct tcgtgaagct gatgaaccg gatggcacca 1800
ctctgcagga tgggaggcac gatctggtgg ttataaggg tgacaacaaa aaaatggaag 1860
atgctaaatt ctacctgacc ctgcctggaa ccaagatgga gatggaagaa aaagagcttc 1920
aagcatctaa aaacctggtc accttcaccc caagcaagga tagcactaaa gacagctttc 1980
agattgccac cctcatctgc tccacaaagc tcaccagaa tgttgacctg ttaggcttgt 2040
taaattggcg ttccaactcc cagaacatta aacacaacct aaagaagtta atggaagtgg 2100
atggaggaga gattgttaag tttttgcaag atacactaga tgcactcttt aacataatga 2160

tggaatgtc agacagtga acctatgact tccttgtgtt tgacgcactg gtatttatta 2220
tttactgat aggagacatc aagttccagc attttaatcc tgtacttgaa acctacattt 2280
acaagcactt cagcgccact ttggcatatg tgaaactctc caaggtactg aacttctatg 2340
tggctaattgc agatgactcc agcaagactg aactgctttt tgctgcgttg aaagccttga 2400
agtacttgtt tagattcatc atccaatccc gagtgctcta cttgagattt tatgggcaga 2460
gcaaagatgg agatgagttt aataattcaa ttcgccagtt atttcttgct ttcaatatgc 2520
tgatggacag gcctctggag gaagccgtca agatcaaggg ggcagctttg aagtaccttc 2580
ctagcataat taatgatgtc aaacttgtat ttgatcctgt tgagctcagc gtgctcttct 2640
gcaaattcat tcaaagcatt cctgacaacc agctggttcg gcagaaactt aactgcatga 2700
ccaagatagt agagagcact ctttttcgac agtcagagtg cagagaagtg ctgctgccac 2760
tgctgacgga ccagctcagc ggccagttag atgacaactc caacaagcct gaccacgagg 2820
caagctcgca gcttctgagc aacatcctgg aggtgctgga caggaaggat gtgggtgcca 2880
ctgcggtgca cattcagctt ataatggaac ggctgctgag aaggatcaac cggacagtga 2940
ttgggatgaa ccggcagtct cccacatcg ggagttttgt ggcttgcattg attgccctgc 3000
tgcagcaa at ggacgacagc cactatagcc actacatcag cactttcaaa accagacaag 3060
acatcatcga cttcctcatg gaaactttta tcatgttcaa ggacctgatt ggaaagaatg 3120
tctatgccaa agattggatg gtgatgaata tgactcaaaa cagggttttt ctccgtgcta 3180
taaatcggtt tgctgaagtt ctcaagaat tcttcatgga tcaggcaagc tttgaacttc 3240
agctctggaa caattacttc catttggcag ttgcatttct caccatgag tcccttcagc 3300
ttgaaacctt ctcaagacc aagcgcaaca aaattgttaa aaaatatggg gacatgagaa 3360
aggaaatcgg ctttagaatc cgggacatgt ggtataacct ggggtcccc aaatcaaat 3420
tcatcccatc catggtgggt ccattcttg aggtcactct gaccctgaa gtagagctcc 3480
ggaaagccac aatccccatt ttctttgata tgatgcagtg tgagttcaat ttcagtggaa 3540
atggcaattt ccatatgttt gagaatgagc tgatcacaaa gctggaccag gaggtagaag 3600
ggggcagagg agacgaacaa tacaaggttc ttctggaaaa actgctccta gaacattgcc 3660
ggaaacacaa atacctctcc agctctgggg aggtcttcgc cctcctggtc agcagcctct 3720
tagagaacct gctggattat agaaccatca tcatgcaaga tgagagcaag gagaaccgta 3780
tgagctgcac tgtgaacgtg ctgaactttt at 3812

<210> 726

<211> 4088

<212> DNA

<213> Homo sapiens

<400> 726

attggtggag gcggaagtt taaacagagt caaaacgcc tacttgtttg gtcctctttt	60
ttaatttgcg agtttattgg gcttgttttc tgttttctag ggagtaggtt agtggaagaa	120
aaaaagggcc gaattcactc ccacgacctc tacagccgcc cctgagggga agcggtcagc	180
gtaagtcccg gatccccgct ccggagccgc ctcgtgggag cggggcaagg agatccagga	240
ggggtctcga atctgccatg gcgaaccggc gagtggggcg aggctgctgg gaagtgagcc	300
cgaccgagcg gaggccgccc gcggggctgc ggggccccgc ggccgaggag gaggcgtctt	360
ccccgccggt cctgtctctc agccacttct gcaggctctc tttcctttgc ttcggggacg	420
ttctcctggg agcctcacgg acgctgtctc tggccctaga caaccctaac gaggaggtgg	480
cagaagtga gatctccac ttcccggccg cggacctggg cttcagtgtg tcgcagcgct	540
gtttcgtgtt gcagcctaaa gagaaaattg ttatttctgt taactggaca ccactcaaag	600
aaggccgagt aagagagatt atgacatttc ttgtaaatga tgttctgaaa caccaagcta	660
tattactagg aaatgcagaa gagcagaaaa agaaaaagag gagtctttgg gataccatta	720
aaaagaagaa aatttcagcc tctacaagtc acaacagaag ggtttcaa attcagaatg	780
ttaataaaac atttagtggt tcccataaag ttgacagagt taggagcca ctacaagatt	840
gtgaaaactt ggctatgaat gaaggcggtc cccaacaga aaacaattct ttaatacttg	900
aagaaaataa aataccata tcacctatta gccctgcttt caatgaatgc catggtgcaa	960
cttgcttgcc actctctgta cgtcgatcta ctacctact atctcttcat gcatcagaaa	1020
ataggggaact attaatgta cacagtgcc acgtttcaaa agtttctttt aatgagaaag	1080
ctgtaactga aacttccttt aattctgtaa atgttaatgg ccaaagagga gagaatagta	1140
aacttagtct taccaccaac tgttcttcaa ctttgaacat tacacaaagc caatacatt	1200
ttctaagtcc agattctttt gtaaataata gtcatgaagc taataatgaa ctagaattag	1260
taacatgtct ttcacagat atgtttatga aagataattc acagcctgtg catttggaat	1320

caacaattgc acatgaaatt tatcagaaaa ttttaagtcc agattctttc ataaaagata 1380
attatggact aaatcaggat ctagaatcag agtcagttaa tcctatttta tcccctaate 1440
aatTTTTaaa agataacatg gcatatatgt gtacatctca gcaaacatgt aaagtaccat 1500
tatcaaatga aaatttctca gteccacagt ctctgaaga ttggagaaaa agtgaagttt 1560
cgccacgtat tcctgaatgt cagggttcaa aatctcccaa agctattttt gaagaactag 1620
tagaaatgaa gtcaaattac tacagtttta taaaacaaaa taatcctaaa ttttctgcag 1680
ttcaggatat ttctagtcac agccacaata aacaacctaa gagacgtcca atactttctg 1740
ccactgttac taaaaggaag gccacctgta ccagagaaaa ccaaactgag attaataaac 1800
caaaagcaaa aagatgtctc aacagtgcag tgggtgaaca tgaaaaagta ataaataatc 1860
aaaaggaaaa agaagatttt cattcttate ttccaattat agatccaata ttaagtaaat 1920
ctaagagtta taaaacgag gtaacacct ctctgacaac agcttcagtt gctcggaaaa 1980
gaaagagcga tggaagcatg gaagatgcaa atgtgagagt tgcaattaca gaacatacag 2040
aagtgcgaga aatcaaaaga atccattttt ctccctcaga gcctaaaaca tcagctgtta 2100
agaaaacaaa aaatgtgaca acacccatct caaaacgtat tagcaacaga gagaaattaa 2160
acctgaagaa gaaaactgat ttatcaatat tcagaactcc aatttctaaa acaaacaaaa 2220
ggacaaaacc cattatcgct gtggcacagt ccagtttgac cttcataaaa ccattaaaaa 2280
cagatattcc cagacacccg atgccatttg ctgcaaaaaa catgttttat gatgaacgt 2340
ggaaggaaaa gcaggaacag ggcttcactt ggtggttaaa ttttatatta acccctgatg 2400
acttcactgt aaaaacaaat atttctgaag taaatgctgc tactcttctt ttgggaatag 2460
agaatcaaca taaaataagt gttcctagag cacctacaaa agaggaaatg tctctcagag 2520
cttatactgc tcggtgtagg ttaaacagac tacgtcgtgc agcatgccgt ttgtttactt 2580
ctgaaaaaat ggttaaagct attaaaaagc ttgaaattga aattgaagct aggcggttaa 2640
ttgttcgaaa agatagacac ctatggaaag atgtgggaga acgtcagaaa gtcctgaatt 2700
ggctgttgtc ctacaatcct ttgtggcttc gaattggtct agagacaact tatggagaac 2760
tcatatcttt ggaagataac agtgatgtca cagggttggc tatgtttatt ctgaatcgcc 2820
tactttggaa tcctgatata gcagctgagt atagacaccc cactgttcct cacctgtata 2880
gagatggtca tgaagaagct ttgtccaagt ttacattgaa aaagtattg ttgttggtct 2940
gttttcttga ttatgctaaa atttcagac tcattgatca tgatccttgt ctcttctgta 3000
aagatgccga attcaaggct agtaaagaaa tccttttggc tttttcacga gatttcctaa 3060

gtggtgaagg tgacctttcc cgtcaccttg gcttattggg attacctgtt aaccatgttc 3120
 agacaccatt tgatgaattt gatattgccg ttacaaatct tgccgtagac ttgcaatgtg 3180
 gagtgcgcct tgtgcgaacc atggaacttc tcacacagaa ctgggacctc tcaaagaaac 3240
 tcaggattcc ggcaataagt cgtcttcaaa agatgcacaa tgttgacatt gttcttcaag 3300
 ttcttaaadc acgaggaatt gaattaagtg atgagcatgg aaatacaatt ctatctaagg 3360
 atattgtgga taggcacaga gaaaaaactc tcagggttgct ttggaaaata gcgtttgctt 3420
 ttcagggtgga tattttccctt aacttagatc aattaaagga agaaattgcc tttctaaaac 3480
 acacaaagag tataaagaaa acaatatctc tactatcatg ccattctgat gatcttatta 3540
 ataagaaaaa aggcaaaagg gatagtgggt cctttgaaca ataatgtgaa aacataaagt 3600
 tattgatgga ttgggtaaat gctgtttgtg ctttctataa taaaaggtg gagaatttta 3660
 cagtgtcttt ctcagacggc cgtgtgttat gttacctgat ccaccattac catccttgct 3720
 atgtgccatt tgacgtata tgtcagcgta ctactcaaac tgtggaatgt acgcaaactg 3780
 gttcagtggg attaaattca tcatctgaat ctgatgacag ttctctggat atgtcactta 3840
 aagcatttga tcatgaaaat acttcagagc tatacaaaga gtcctagaa aatgaaaaga 3900
 aaaattttca cttgggttagg tctgcagtta gagaccttgg tggaataacct gctatgatta 3960
 atcattcaga tacgtcaaat acaattccag atgaaaaggt gggtattacc tatttgtcat 4020
 ttctttgtgc aaggcttttg gatcttcgta aagaaataag agctgctcgg ctcatacaaa 4080
 caacatgg 4088

<210> 727

<211> 3253

<212> DNA

<213> Homo sapiens

<400> 727

ggcctttttt tttttttttt tgagacggag tcttgctctg tcaccaggc tggagtgcaa 60
 tggcaggatc ttgccttact gcaacctctg cctcccggat tcaagtgatt ctctgcctc 120
 agcctcccca gtagctggga ttacaggtgc ccgccacat gctcagctaa tttttgtat 180

ttttagtaga gacagggttt caccatgttg gccatggctg gtctcgaact cttgacctca 240
ggcaatccac ccgcctcggc ctcccaaagt gctgggatta caggcatgag ccacatgcc 300
cggcctccaa aagcaacttt ttacacacc cagccctgcc cacctacaa cccacccca 360
g'gcagattc ccagtattct tggcgcctc aagtgggtga ggttgcaaac tgcagcagag 420
actgaggagc aaaggtccca gggctatcac atccacccca agtacagagc caaggagtag 480
cttcacttc ttaaagcaa acctctgcct gcactatcaa tcctaacgct gatttcagag 540
gcctcacata aggcagagca cagggaccgg ttctggccct ggagggaagg gatgggattt 600
catgccgctg ctgctgctcc tgctgctgcc gtcaggagac cagacgcttg gctccattag 660
acagcattgt ggggagcagg tctcctgggt ttctgagaag ctcccattcc atcccacgt 720
acggagacaa aggatcaggc ttgaacctca ggcactggca agaaagcttc ttaacagaca 780
gaagagcaga ggcagacgga tgtcttacag tcaccagcaa gaggatgagg cgttcattca 840
tttgacaatt tcaggcccca cgctaggcca ctaagactaa agctggccac agtaaggaac 900
caccagcttc agaagcaaac ccctggacct aaggatgagg caggcaaggg cagggggagg 960
tagagggaga gggtcacagc caagtgtgac aacactcagc ccctgagctc ggtggtggtg 1020
ggagggttga ggattcatct ttccttctcc actctcagct ctggcaaggc agaaggggaa 1080
ccatctctcc agactcacct gtagaaagca gcaggctccg cattcacccg aatctgcatg 1140
tgcttgaacc taaaatctcc ctccagcttc tcctgatgca ccagcttcat cacaatgggg 1200
cccatcaaag ttttgttcac cacggtcccc aggatgaaat acccgaagat gctcacaggc 1260
ccgagccagc ctgtgctttg gaagcactgg taagtgtagt agacgagggt gaacggggag 1320
atgatgagct tgctggccat gctgctgagc tgccggcaga atcgctccac gtcctggctg 1380
atgcgctggt ccctggagcc aatgacacag agtagctgga cccagggaga tgggcccaaa 1440
ggtagagaga acaagaaact ttcacatcac ctctgctctt gaccttgcct cacagtgtg 1500
tgaacactga ccctatggga agagggaacc agacaaggct ggtttcctag gggcaactaa 1560
atcccagggc ctttaaagc ggttctagag ggttgcattc tacgggtgcct cagttaatcc 1620
cctgaaaaag tgggaactga aaggtccagt acccaggggc ctgagccagc tctgagcaga 1680
gccaaagaaa aacttgaagg tagatgagct gttttggatg atcaagaaga ctatcccctt 1740
tatctcaatc ctcccaaatt tctcttatat aagccctagc ctggcccctt tagttatctg 1800
gctgtgaaag ctccaggctg tgaggcacac ctgtagtccc agctactcag ggggcagagg 1860
caggatggaa gccatagcca tcagaaagag gcctagaagt taggcagcag cagcagcctc 1920

ccacgcacatct ttgcaccaaa gctaagcttg agctgagagg taccccaacc aacaaagtgc 1980
ttgctaggaa ggtggtgagt gaggggatgg gtgtgaagga gaccccctat gtctcatctc 2040
accactaggg ccatactgat tcctattccc aatgagtgcac gtgaccttgg gcaagtcact 2100
tgcaatctct gggcttcagc ttctcatct gtaaaataac aatagctaac ttacactgaa 2160
acacttgcta tgtgtcaagc actgtacatg tgcattacat gaatgatatt tcctcctcac 2220
tacacccttt gagataggaa ctattattgt cctcatttta cagaagggga acctggggct 2280
tggtgacttt aagagttata acctgagtgg tgatagaatg gagatgtgaa tcctagactg 2340
agtcctggat agtggttaatt ttttttactg atgaaaatct aagagctggg ttttctagca 2400
aggacatttt ctttagaacc ctctaaagaa accccttagt cttcttactg gaagactaag 2460
atataaagta tgaaaaggac aaaagaaagc tgctcctaac atttttcttt tttttaagag 2520
atggggggtt ctgctatgtt gccaggcta gactacagt gctattcca agtgtgtca 2580
cgggtgcacta ctctgggct caagtgatcc tcctgcctca gcctcctgag ttgttgggac 2640
cacaggtgca tgccactgca cctggcaggc ttcttcttt tagctgccta ttcacagccc 2700
tgcagcttct ccaggagtcc tctgcagggc accctcccc atgactctgg gcagcagcat 2760
ttgaaaacga ctgcagatga tctccttggg gtctgccacc agcagtctcc agggctaggc 2820
cagaaggaaa ggaccacaca gagtgtagaa aggactgagt tgggggcct acgggttattc 2880
gatgtcatcc cgcagcacgt tgagggtgta gtacgcacgg ccccggaagt agaggcgggtg 2940
aagtgctca gtgaggtcct tcctccagct cacatacagc aggttgagg tgaactgac 3000
aaagctcttc agcgtggagt tcagaacaat gagcatgaca gccaggaatg tcagagtctt 3060
aaacccttc aagtctttgt ttcccaggac cccatagtac tgactgggga tcaggccaac 3120
ctggtagatc acaaattgct ctgaaaggag gcgaaggcag gagaatcact tgaaccaggg 3180
aggcagaggt tgcagtgagc tgagattatg tctactgcact ccagcctggg caacaagaga 3240
gaaactctgt ctc 3253

<210> 728

<211> 4901

<212> DNA

<213> Homo sapiens

<400> 728

cttttggtac	cggtactatg	ccgttttggg	tattgtagcc	ttgtagtata	gtttgaagtc	60
aggtagcatg	atgccttcag	ccttgttctt	tttgcttagg	attgtcttgg	ctatgtgggc	120
tgttctttgg	ttccatatga	aatttaaagt	agtttttttc	tagttctgtg	aagaaagtca	180
atggtaggtt	ggtaggaata	gcattgcgtc	tataaattac	tttgggcagt	atggccattt	240
tcacaatatt	gattcttcct	atccatgagc	atggattttt	tttccatttg	tttgtgtcct	300
ctcttatttc	cttgagcagt	ggtttgtagt	tctccttgaa	gaggtccttc	atgtcccttg	360
taagttgtat	ttctaggtat	tttattttct	ttgtagcaat	tgcggatggg	agttcactca	420
tgacttggct	ctctgcttgt	ctattattgg	tatataggat	tgcttgtgat	ttttgcacat	480
tgattttgta	tcctgagact	ttgccgaagt	tgcttatcag	cttaaggagt	ttttgggctg	540
aaacagtggg	gttttctaaa	tgtacgatca	tgtcatctgc	aaacagagac	aatttgactt	600
cctcccttcc	tatttgaata	cgctttatct	ctttctcttg	cctgattgcc	ctggccagaa	660
cttccaatac	tgtgttgaat	aggagtgggtg	agagagggca	tccttgtctt	gtgccgcttt	720
tcaaaggcag	tgcttccagc	ttttgcccac	tcagtatgat	attggctatg	ggtttatcat	780
aaatagctct	tattattttg	agatatgttc	cattagtacc	tagtttggtg	agagttttta	840
gcatgaaggg	gtgttgaatt	ttattgaagg	ccttttctgc	atcttttgag	atgatcatgt	900
ggtttttgtc	actggttctg	tttatgtgat	ggattacatt	tattgatttt	catatgttga	960
accagcctta	catcccaggg	atgaagccga	cttgatcgta	gtagataagc	tttttgatgt	1020
gcctctggat	tcagtttgcc	agtattttga	ggattttcac	atcgacgttc	atcagggata	1080
ttggcctgaa	attttctttt	tttgttgtgt	ctctgccagg	ttttggaatc	aggatgatgc	1140
tggcctcata	aatgagtta	gggaggtagg	gaggagtctg	tcttcttcta	ttgtttggaa	1200
tagtttcaga	aggaatggta	ccagctcctc	tttgtacctc	tggtagaatt	cggctgtgaa	1260
tccgtctggc	cctgagtttt	tttggttggg	aggctgttaa	ttattgcctc	aatttcagaa	1320
cttgttattg	gtcttttcag	ggatttgact	tcttcctggg	ttagtcttgg	gagggtgtgt	1380
atgtctggga	atttatccat	ttcttctaga	ttttctagtt	tatttgcata	gaggtgttta	1440
tagtattctc	tgatggtagc	ttttatttct	gtgggatcag	tggtgatatc	tcctttatca	1500
ttttttattg	tgtatatttg	attcttatct	tctttcttct	ttattattct	ggttagtggg	1560
ctattttggt	aatcttttaa	aaaaaacagc	tcctggattc	attgattttt	ttctaagagt	1620

ttttcatgtc tctatctcct tcagttctgc tctgatctta gttatttctt atctttctgct 1680
agcttttgaa tttgtttgct cttgcttgct tagttctttt aattgcaatg ttaggggtgtc 1740
aattttagat ctttccact ttctgatgtg ggcatttagt gctataaatt tccctgttaa 1800
caccgtttta gctgtgtccc agagattctg gtatgttgct tctttgttct cattgggttc 1860
agagaacttc gttatttctg ccttaatttc attatttacc cagtagtcat tcaggagcaa 1920
gttggtcagt tttcatgtag ttgtgcgggt ttgagtgagt ttcttaatcc tgagttctaa 1980
tttgattgcc ctgtgggtctg agagactgtt tgttatgatt tccgttcttt tgcatttgct 2040
gaggagtgtt ttacttccaa ttgtgtggct gattttagaa taagtgtat gtgggtctga 2100
gaagaatgta tattctgtgg attaggtcag cttgggtccag agctgagttc aagtcctgaa 2160
tataccttgtt aattttctgt ctggttgatc taatattgac agtgggggtgt taaagtctcc 2220
cactattatt gtttgggagt ctttaagtctc tttgtaggtc tctaagaact tgttttatga 2280
atctgggtgc tcctgtattg ggtgcatata tatttaggat agttagctct tctagtttca 2340
ttgatccctt taccattatg taatgccctt ctttgtcttt tttgatcttt gttggtttaa 2400
agtctgtttt atcagagatt agaattgcaa cccctgcctt tttttttttt ttttgctttc 2460
catttgcttg gtaaataatc ctctatccct ttattttgag cttatgtgtg tctttgcaca 2520
tgagatgggt ctctgaata cagcacactg atggattttg actctttatg caatttgcca 2580
gtctgtgtgt ggtttttttt tttttttttt tagacggagt cttgctctgt tgcccatgct 2640
ggagtcatg gcgcaatctt ggctcactgc aacctctgcc tcccaggttc aagtgattct 2700
cctgcctcag cctcccatgt agctgggact acaggtgcac gccaccatgc ccagctaatt 2760
tttgtatttt tagtagagac ccctgtcttc accatattgg ccagactgggt ctggaactcc 2820
tgacctcgtg atccaccac cttggcctcc caaagctctg ggattacagg tgtgagccac 2880
cactcctggc ccatctgtgt cttttaattg gggcatttag cccatttata ttttaaggta 2940
atattgttat gtgcgaattt gattctgtca tcatgatgct agctggttat tttgcacatt 3000
agttgatgca gtttcttcat agtgttgttg gtctttatat tttgggtatgt ttttgcatg 3060
gctgggtaccg gtttttctt tccatattta gtgcctcctt caggagctct tgtaaggcag 3120
gcctgggtgt gacagaatct cttagcattt gcttgtctgt aaaggatttt atttcacctt 3180
cacttatgaa gcttagtttg gctggatatg aaattctgtg tttaaaattc ttttctttaa 3240
gaatattgaa tattggcctt cactgtcttc tggctttag agtttctgca gagagatctg 3300
ctgttagtct gtgggcttcc cttttagat aacctgacct ttctctctgg ctgcccttaa 3360

cattttttcc ttcgtttcaa ccttgagaa tctgacgatt atgtgtcttg gggttgctct 3420
tctcaaggag tatcttcgtg gtgttctcta tatttcctga atttgcattg tggcctgtct 3480
tgctaggttg gggaagttct cctggataat atcatgaagt gtgttttcca acttggttcc 3540
attctcctgt cactttcagg gacactcagt caatcgtagg tttggtcttt tcacagagtc 3600
ccatatttct tagaggcttt gttcgttctt tttcattctt ttttctctaa tcttgtcttc 3660
acaccttatt tcagtaagtt gatcttcaat ctacagatatt ctttcttctg cttgattgat 3720
ttggctgttg atacttgtgt atgcttcacg aagtctcat cctgtgtttt tcagctccat 3780
caggtcattt gtgttcttct ctaaactggg tattctagtt agcagttcct gtaacctttt 3840
gtcaagggtt ttagcttttt tgcatgggt tagaacatac tcctttagct cagaggaatt 3900
tgttattatc caccttctga agcctatttc tgccaatttg tcaaactcat tctctgtcca 3960
gttttgtgcc cttgctggag aggagtgcg atcatttga ggagaagagg cattctggtt 4020
tttggaattt tcagcatttt tgtgctggtt ttttctcat cttcatggat ttatttacct 4080
ttgatctttg aggctgatga ctttgtata gggtttttgt gtgggggtcc ttttttttg 4140
atgttgatgt tgttgcttct tgtttgttag ttttcttct aacaggcccc tcttctgcag 4200
gtctgtcca attggctgag gtccactcca gacctgttt gcctgggtat caccagtgga 4260
ggctgcagaa cagcaaagat tgccacctcc tccttctct ggaagcttcg tcccagaggg 4320
gcactgggct aatgccagct ggagctcttt tgtatgaggt gtctgtcaac ccctgttggg 4380
agatctttcc cactcaggag gtgtgggggt cagggacca cttgaggagg cagtctgtcc 4440
cttagcagag ctgcagcact gtgctgggag aatcctcct gtcaggatct gttgctctct 4500
tcaaagctgg caggcaagaa tgtttaagtc tgctgaagct gcgcccacag ccgtcccttc 4560
tcccaggtgc tctgtcccag ggagatggga gttttatcta taagcccctg actggggctg 4620
ctgcctttct ttcagagatg ccctgcccag tgagaaggaa tctatagagg cagtctggcc 4680
acagccactt tgccacgtg tgttgagtcc caccagtcc gagcttccag gcctctttag 4740
cactgttagg ggaaaaccac ctactcaagc ctacagtaatg gcaggcgccc tccccccac 4800
caagctcgat tgtcccttgg ctccctggct tcagcctcct ttccagggga gtgaacggtt 4860
ctgtcttgct ggggttccag gtgccactgg ggtatgaaaa c 4901

<211> 3776

<212> DNA

<213> Homo sapiens

<400> 729

```
agacggcgcc cagcggcggc gcgaacggca gctaggaggg ttgctccggg cttggtgctc 60
actgcgactt cccgcgcagg gcccggtcgg actaggaccc gcggcctgag agacgctgga 120
ggatgcggac gcggaggccg cctggggtag cggcggcggg agtcctggcg ctctgcaggt 180
cagaagttga gtagcagggg cctaggaggg ctggaagcct tcacagcgat ggcagagaag 240
cgaccctga gaacctggg gcctgtgatg tatggcaagc tgccccgctt agagacagac 300
tccgggctcg agcacagcct gcccactct gttggttaacc aggatccctg cacctacaag 360
gggtcctact tctctgccc catggcgggt actcctaagg ccgagtctga gcagttggcg 420
tcttggaacc catacccacc cttgtactct accggtatgg caggaccccc acttcaggca 480
gacaacctgc tgaccaactg cctgtttctac cgctcgccag cagaaggccc tgagaagatg 540
caggactcca gccctgttga gtcctgccc ttcagtcccc aggctcactc ctaccaggc 600
ccaccactgg cagcacccaa acctgtctac cgcaaccctc tgtgctatgg gctctcaact 660
tgtctggggg aaggagcagt gaagaggcca ctggatgttg actggactct ggcgactggg 720
cccctgttgc cctcagctga cccaccctgc tctctggccc cagctcctag caagggccag 780
actctggatg gcaccttctt gcgggggggtg ccagctgagg ggtccagtaa agactcctca 840
gggagcttct ccccatgcca gcccttcctg gagaaatatc agaccatcca cagcacgggc 900
ttcctggcct ccaggtacac aggtccttac cctaggaact ccaagcaagc aatgtctgag 960
gggccctcaa gtccttgga cagctggcc cagcccctgg ggccaccctg tcaggacacc 1020
ggggccacc actaccacc accccaccac ccaccacccc accctccaca ggccctgcct 1080
tgccctccag cctgtcgcca ccagagaag cagggcagct acagcccagc actccactg 1140
cagcctctgg ggggccacaa ggggaccggg taccaggctg gtgggctggg cagcccctac 1200
ctgaggcagc aggcagccca ggcaccttac attccccac tggggctgga cgcttaccac 1260
taccctctg cccctctccc agcacctct ccaggcctca agctggagcc gcctctcact 1320
ccacggtgcc cattggactt tgccccccag aactgagtt ttccttatgc ccgggatgac 1380
ctctctctct atggagcatc ccctgggctt ggagggacac caccttcca gaacaatgtg 1440
```

agggctgtgc cacagcccgg tgccttccag agggcatgcc agcctttgcc agcgagccag 1500
ccctgctcag agcctgtgag gcctgcacag gaagccgaag agaagacctg gctgcccagc 1560
tgcaggaaag agaagctcca gccccggctc agtgagcact ctgggcccgc catcgtcac 1620
cgagacagtc cagttccctg tccccccca gcaactgcccc cctgtgcccc ggagtgccag 1680
tctcttccac agaaggagga cgcaaggcca cccagctctc caccaatgcc tgtcattgac 1740
aatgtcttca gcctggcccc ctaccgtgac tatctggatg tgccggcacc cgaggccaca 1800
actgagcctg actctgccac agctgagcct gactcagccc cagccaccag tgaaggctcag 1860
gacaaaggct gcagggggac cctgcctgcc caggagggcc cctcaggag taaacccta 1920
aggggctcac ttaaggagga ggtagccctg gatttgagtg tgaggaagcc cacagcagag 1980
gcctcccctg tcaaggcttc ccgttctgtg gagcatgcca agcctactgc agccatggat 2040
gtgccagatg tgggcaacat ggtgtcagat ctgccaggcc tgaaaaagat agatacagaa 2100
gcaccaggct tgcctggggt gccagtgacc acagatgcca tgccaaggac caacttccac 2160
agctctgtgg ctttcatgtt ccgaaagttc aagatcctcc gtccggcacc tttgcctgca 2220
gccgtggtcc cgtccacgcc cacctcagct cctgctcca cacagcctgc accaccccc 2280
acatctgggc ccattggact gcggattctc gctcaacagc ctttgtctgt gacctgttc 2340
agcctggcac tgcccagccc tccagccgta gctgtggcct cccctgcccc tgctccagct 2400
ccatcccctg ctccggctcg agctcaggct ccagcttcag cccgggatcc agctccagct 2460
ccagctccag ttgcaggccc tgctccagca tctacttcag ccccagggga ctccctggag 2520
cagcatttta caggactaca tgcgtccctg tgtgatgcta tttctggctc cgtcgcccac 2580
tctcctccag agaagcttcg cgagtggctg gagacggctg ggccctgggg ccaggctgcg 2640
tggcaggact gccagggtgt gcaggggctg ctggccaagc tgctgtctca gctgcagcgc 2700
ttcgatcgca cccaccggtg ccccttcccc catgtggtgc gagctggcgc catcttcgtg 2760
cccattcacc tggatgaagga gcggctcttc cctcggctgc caccgcttc tgtggaccat 2820
gtgctgcagg agcatcgtgt ggagctgcgg cccaccacgc tgcggagga gcgggactg 2880
cgggagctcg ccctgccagg ctgcacctca cgcatgctga agttactggc gctgcgccag 2940
ctgccggaca ttacccca ccttctcggc ctgcagtggc gcgactgtgt acgccgccag 3000
ctgggtgact ttgacactga ggctggagct gtgtcctcct cagagcccac tgtggccaga 3060
gatgagccag agagcctagc cctggctcag aagtcaccgg ccccaaggt caggaagcca 3120
ggcaggaagc caccaacccc tggcccggag aaagcagagg cagctgctgg ggaagagtcc 3180

tgtggtgcct cccctacccc tgctaccagt gccagccccc ctggcccccac actgaaggcc 3240
cgcttccgca gtctgctgga gaccgcctgg ctcaatggcc tggctctgcc cacctggggc 3300
cacaagtcct caagaccaga ccagccctca ccctgcccac agctgctgga cagccagagc 3360
catcacctgt agcactgggt gccagtgtgt tgtgtatagc agtcactctc cacccttccc 3420
ttctgcctgc ccagctgccc cggggccacg agtggatgct ggggctgtgg ctgctcccct 3480
ggaggggttc catctctgac cctgtggccc attcaggggtg ggctgaagag cccctgagct 3540
tttaacgtga gggcttttat tggataggac tactccctat ttcttgccca gagaacacac 3600
atgggctttg gagcccgaca gacctgggct tgaatcccgg ctcgtgttct tgctgcagga 3660
cctgggcaag aaacttcacc tctgctgagc cctcattccc catgtgtaaa atgggacaac 3720
gcaacctacc tcacagggtt gttgtgggga tgctgcctga tacataccct gtcacc 3776

<210> 730

<211> 3471

<212> DNA

<213> Homo sapiens

<400> 730

agtttctgtc ctgggtggac ccggattggc tccttgccct caagtccgac tgggaacaag 60
ctgaggaaga cacaactcc aggctaagtc ttgactccca ccaccggct ttgcgagaga 120
acccccgggt ttggacctcc tgcccaagca catccctgct gaagaggaa cgggtcaag 180
gtcaccttgg gggacagacc ttgcctggcc atgcagtctc tccaggcagg agaactgcaa 240
cattttggag caaagacagg cccggggccc agagattcgg attcagcagg cctgggatgg 300
ggcccaagga gtctgtctct tgaacagagc ttctatcctg gatggttctg taaacccag 360
gtgaggactc cactcagg ggcacgacg gtcccaggac actgagcctg ccgagtgcc 420
caccacaagc cctggccagg ccaccgccca gccacacgc agagctgtgg ccgggccact 480
caccgggttg gccgtgatgg ctaggttctg gaggttctgc aggaggccga tgtcggcagg 540
gaggaaggctc aggttgttgt ggctgaggctc caggtagcgc agcttgccgc agtagaagag 600
ctgggtgggg atcttctcga tcttgttgcg gttcaggtag aggcgctcca ggttggtgag 660

gttgccgatac tggatgggga tgtaggcgat gtggttgatc cacagcttaa ggcaggtgag 720
gcggtgcagg tgctggaagc tgatgatctc ctcgatggtc ttgaggttgt tgccttgag 780
gtcaatctcc tgcaggttgt ggaggctgaa gatggagtgg gggatgcgct ccaggtcaca 840
gcggatcagc tccagctcag tcaggttcgc catcttcttg aggctgttga ggacgatgag 900
cttggtgccc tcattgttga tggacagctt ctgcaggtgc acgcccacat ctgtgaccac 960
ctgtggcagc ttgcttaggt tgctcttgag ccgcagcacc ttgaggcgtt tgagctcccg 1020
cagcccgtcg atgacgatgt agcggttgtt ctccgcgctc aggttgccccg tcaggtgcag 1080
ctcctccagt gtcttcaggc tatagatcca cagcgggatac tccttgacgt cgggtgaactt 1140
gatgtgcagc gcccgcaggt tctcgcgcag gaaggccagc gcggggcgtt caatcttggc 1200
cgctgtgtgg tagagccaca gctccttgag gcccgtagc tgggcaatgc tgggcgggat 1260
ggtcacgtcg gggatcagct ccagcttgag gacctccagc tccaccaggt caaacacagt 1320
gtcagggatg ccactgagca tgaacaggtg cagctccagc ttgtcctgcg cgttcttggt 1380
gagccgctgc cggagcttgt ccagcgtcca ctcgttgtt aggttcagct gccgcagctt 1440
gttctcactc acctccgaca ggaagacggc gaagcgcttg gagtagagcg ggctgtattg 1500
gtcaatgagg tgcagcatga aggcgaagtc gttcttgacg tcggggatgt cgctgtggct 1560
gctctcctca cggatcgact caaacgagta cttcttgagg gagcgccgta gcatccacca 1620
cagtgtatac atgcagatga ggccgtagaa gatgactagg ctgatgtaga aggacgccag 1680
gatcttgaag agtgtggcca gggggtgggc acagcggtag gtgcggtagc ccgtcaggct 1740
ctcaatgtcc acggtgcagt ccacgtcgaa ctigatgttg tgcacgtagt agacgggtgta 1800
gcagatgatg aggatgaact tgatcacctt gatgatggtc tgccgcatgt agaggcggta 1860
cacaatgtcc cctcctcca catgggtccg gaacttcttc acctctcaa acagcgcctt 1920
ggcttgctcc cctccttct tgtccagcac gcccgtctct gagcgggtcca cgataccctg 1980
ctcgatccgt gacttggtcc gctgcagcat gggcacgggtg gcctccacgt cctcactgac 2040
ggtcgatgac tttttgtcca tggacccatt catcttgctg aaggccggct tggggctcgt 2100
ctcctccacc actgtctccg acagggccct cgtgggtccag ggcgagtcga agcacttcag 2160
caggatagac acaaagtgtc ccagcttcga gctgggtgcgc gggaatttga accagaagtt 2220
gctgcaggcc aggaagatga gcgtgtgcag aagcaccagg taggggaagt acttgcaaaa 2280
ccagtgcagt cggttctcat agcacacagc gtccacgtag ttgtactggg gccgggtccag 2340
gtcatacttg atgcctgtgg ggcccgtgtc aggggtcggc agaatgggtg agttggggta 2400

ggtgggctcc gggccagggg ctgcccagcc ccggaacgaa tcattgcagg agtccttggg 2460
 gaccactta caaggcaggc agatcatctt gtcttgggtg acctgcagcg tcccccgaa 2520
 gacggcaatc atcagcatga cgatagagat gtagtctgtg aacacatccc accacggctt 2580
 caggatccgg tatgtctggc gcgtgtccgc aaagtagcgg agctctgtca ccggaatcat 2640
 ggttcaacct aaaaggagc cataggaggg gggttagcac aggggtggcct ggctttccta 2700
 ggaccagggg tcagggaag aagacaatga aaattcttcc attgtccaaa attccacctc 2760
 aaatctagct gggagccaaa gcctgcctac tccacggggc agccactta tcagcccttc 2820
 tgcagaaaagc atgtggccac ttggctggga aaccaccctg ggggaggcag gcaggctccc 2880
 catttaatac acaggaagac tgagcacagt gagattagac agatccccag tgcagcctca 2940
 gggttctctg ctccatccct tgcattccag taagagcaat cgggaaactcc tttctaaagt 3000
 ccacctatit aatgaacaga ttgaccagag ggacacatit aaaactccca gttcactggg 3060
 aaccagctgc tgtaaagctg cagcaaaggg ctggagggat tcccgcaaaa tatgaggaaa 3120
 gaaagcaaca tgcagagggg gcacaacatg aactcacttc cataaaaca agagcaaggt 3180
 ttaaaaattc cacgtggttc acgtctgtaa tcccagcact ttgggaggcc gaggtgggtg 3240
 gatcacctga agtcagaagt tcaagaccag cctggccaac atggtgaggc tcggtctcta 3300
 ctagaaatac aaaaattagc ctggcgtagt ggcggtgccc ttagtccca gctattcggg 3360
 aggtgagac aggagaatca cttggaccgc ggaggtggag gttgcagtga gctgagattg 3420
 tgccattgca ctccagcctg ggcgacaaga gtgaaactcc aactcaaaa g 3471

<210> 731

<211> 5880

<212> DNA

<213> Homo sapiens

<400> 731

acactcatgc tgcagccttg agccgtccct cgtcctcctc tcaggctccc tcttgtccac 60
 ggcgggcggg cgccgagctg ctggctatgc cactgaagca ttatctcctt ttgctgggtg 120
 gctgccaagc ctggggtgca gggttggcct accatggctg ccctagcgag tgtacctgct 180

ccagggcctc ccaggtggag tgcaccgggg cacgcattgt ggcagtgtccc acccctctgc 240
cctggaacgc catgagcctg cagatcctca acacgcacat cactgaactc aatgagtccc 300
cgttcctcaa tatctcagcc ctcatcgccc tgaggattga gaagaatgag ctgtcgcgca 360
tcacgcctgg ggccttccga aacctgggct cgctgcgcta tctcagcctc gccaaacaaca 420
agctgcaggt tctgcccata ggcctcttcc agggcctgga cagcctcgag tctctccttc 480
tgtccagtaa ccagctgttg cagatccagc cggcccactt ctcccagtgc agcaacctca 540
aggagctgca gttgcacggc aaccacctgg aatacatccc tgacggagcc ttcgaccacc 600
tggtaggact cacgaagctc aatctgggca agaatagcct caccacatc tcaccagggg 660
tcttccagca cctgggcaac ctccagggtcc tccggctgta tgagaacagg ctcacggata 720
tccccatggg cacttttgat gggcttggtta acctgcagga actggctctg cagcagaacc 780
agattggact gctctcccct ggtctcttcc acaacaacca caacctccag agactctacc 840
tgtccaacaa ccacatctcc cagctgccac ccagcgtctt catgcagctg cccagctca 900
accgtcttac tctctttggg aattccctga aggagctctc tccggggatc ttcgggcccc 960
tgcccaacct gcgggagctt tggctctatg acaaccacat ctcttctcta cccgacaatg 1020
tcttcagcaa cctccgccag ttgcagggtcc tgattcttag ccgcaatcag atcagcttca 1080
tctccccggg tgccttcaac gggctaacgg agcttcggga gctgtccctc cacaccaacg 1140
cactgcagga cctggacggg aacgtcttcc gcatgttggc caacctgcag aacatctccc 1200
tgcagaacaa ccgcctcaga cagctcccag ggaatatctt cgccaacgtc aatggcctca 1260
tggccatcca gctgcagaac aaccagctgg agaacttgcc cctcggcatc ttcgatcacc 1320
tggggaaact gtgtgagctg cggtgtatg acaatccctg gaggtgtgac tcagacatcc 1380
ttccgtccg caactggctc ctgctcaacc agcctaggtt agggacggac actgtacctg 1440
tgtgtttcag cccagccaat gtccgaggcc agtccctcat tatcatcaat gtcaacgttg 1500
ttgttccaag cgtccatgtc cccgagggtc ctagttacc agaaacacca tggtagccag 1560
acacaccag ttacctgac accacatccg tctcttctac cactgagcta accagccctg 1620
tggaagacta cactgatctg actaccattc aggtcactga tgaccgcagc gtttggggca 1680
tgaccaggc ccagagcggg ctggccattg ccgccattgt aattggcatt gtcgccctgg 1740
cctgctccct ggctgcctgc gtcggctgtt gctgctgcaa gaagaggagc caagctgtcc 1800
tgatgcagat gaaggcacc aatgagtgtt aaagaggcag gctggagcag ggctggggaa 1860
tgatgggact ggaggacctg ggaatttcat ctttctgcct ccaccctgg gtccatggag 1920

ctttcccgatg attgctcttt ctggccccag agaaaggtga gcctacctct tcctgacttg 1980
cctgattctc ccgtagagaa gcaggctcgtg ccggaccttc ctacaatcag gaagatagat 2040
ccaactggcc atggcaaaaag ccctggggat ttccgattca tacccttggg cttccttcga 2100
gagggtcttt cctccaaatc ctccccacct gtcctccaag aacagccttc cctgcgcca 2160
ggccccctcc gggcctctgt agactcagtt agtccacagc ctgctcactt cgtgggaata 2220
gttctccgct gagatagccc ctctcgcta agtattatgt aagttgattt cccttctttt 2280
gtttctcttg tttgtgctac ggcttgacct agcatgtccc ctcaaataaa agttctcccc 2340
ttgattttct gctcctgaag gcagggtgag ttctctcttc aaagaagact tcaaaccatt 2400
taactggttt cttaagagcc gtcaatcagc ctggtttttg ggatgctatg aaagagagaa 2460
ggaaaatcat gccgctcagt tcctggagac agaagagccg tcatcagtgt ctacttgtg 2520
atTTTTatct ggaaaaggaa gaaacacccc agcacaacaa gctcagcctt ttagagaagg 2580
atatttccaa actgcaaact ttgctttgaa aagtttagcc ctttaaggaa tgaaatcatg 2640
tagaattttg gacttctaaa aacattaaaa tcagcttatt aatacgggat agagaaagaa 2700
atctggtgcc tgggggtccc tgtgttcacc cctagagttt gttttaaaat ttttaattga 2760
agcatgtgaa gtgtacgtgc agaaaagtgg gaacatgata gtgtatggct tgggtggattt 2820
tcacaaactg aacataacctg tgtaatcagc atctagacct agaccagag catcacaaat 2880
atcccccatc ctgggctttt ccagaggag atgggggctt ctgaagatgg acttacctgg 2940
gacctgcccc ccatgagcca ggacgggtccc ccacagctca gcctgtgcaa aggccccgtg 3000
gccaggggtg gaggagaaca tgtgggtgtg gacaggatgg gagactgtgg cctgaacagg 3060
agattttatt atatctggag accctgagag accctgagac ctggggcacc atggctggcc 3120
aggtcagaag catcctgact gcagaggtcc gtgcagccac accctcttc ctgccagcaa 3180
gctgtctgcg gctcatcgga ggccccctcg cctggagcct tctatggacg tgatatgcct 3240
gtatctgttt ttaattttca ttcttcactt aggggaagtg aaatcgctca gagatgagat 3300
cctttaattg aaaacgaagt gtaacggaat ctagtgtctt tctaattgtg taaaattctc 3360
catcaacatc acagtcagct ggcagctgaa cttcagaatc tcaattacag caggcgacac 3420
gggggtacac cgatgggtca cactgggtct gggggctccc tggagctcct cctgcgtgtg 3480
gtctggttag gagttgagtt gtttgctcca ggggtattct cctcctcgag tcacagtcac 3540
acgaatacct gccttctctg gctttctgc tatacacata ttcacatggc gctcaagaag 3600
ttaggctcat ggcaacgtgt gtctttctct ggacaactgg ccagttttac agtgaaatgg 3660

agaatttcag gtctccacgt ctgcccagga aagaacttca gctgactcca cggggatctg 3720
gaaatccacg accaatcccg atcggctctt attagctccc cgctccacaa gacacctgtg 3780
ctttggaaat ccaccaccaa tcccgatcgg ctcttattag ctccccgctc cacaagacac 3840
ctgtgatttg gaaatctacc accaatcccg atcggctctt attagctccc cgctccacaa 3900
gacacctgtg acatcctcca gggccacagg agcacgtgct gaccagtttt cccttccagt 3960
tcctgcacaa aaagtgtcca gagggctgtt tgcaaact agtgcacttt gtagcttctc 4020
acctctgtc ccagggaatc taggagagat gagggccgctc agagtcaaga gatgtcatcc 4080
ccccagggtc tccaaggcat ttccacacta ttggtggcac ctggaggaca tgcaccaagg 4140
cttgccagag ccaacaggaa gtgagcccag agcatggcac atgagcatca cccgctgatg 4200
gtggcctgct gtgcctggtg ccaacagggg catcccggcc cgtaccctc cagacaggaa 4260
gcatgggttt gccacagac ctgtcgggtg ctctgtgag tggcctccag atgtctttgt 4320
gcataggcac aagtgggcca gggctggagg gaggtgggaa acctcatcat ccggtgggcc 4380
ctgccaatct taaccagaa cccttaggta ttctggcag tagccatgac attggagcac 4440
cttctctcc agccagaggc tgacctgagg gccactgtcc tcagatgaca ccaccagga 4500
gcaccctagg tgaggggtga gggccccctt atgtgaacct cttgcctctt cttttctccc 4560
atcagagtgg ttggatggag ccattggcct cttttcttc agcgggccct tcaacctctc 4620
tgcaccatgt tgtctggctg aggagctact agaaaagctg agtggagtct cttttccaac 4680
aggatgatgc atttgc taa ttctcagggc tggaatgagc cggctggtcc ccagaaagc 4740
tggagtgggg tacagagttc agttttcctc tctgtttaca gtccttgac agtcccacgc 4800
ccatctggag tgggagctgg gagtcagtgt tggagaagaa acaacaaaag ccaattagaa 4860
ccactat ttt taaaagtgc ttactgtgca cagatactct tcaagcactg gacgtggatt 4920
ctctctctag ccctcagcac ccctgcggta ggagtgccgc ctctaccac ttgtgatggg 4980
gtacagaggc acttgctctt ctgcatggtg ttcaataggc tgggagt ttt atttatctct 5040
tcaaactttg tacaagagct catggcttgt cttgggcttt cgtcattaaa ccaaaggaaa 5100
tggaagccat tcccctgttg ctctccttag tcttggatcat cagaacctca cttggtacca 5160
tatagatcaa aagctttgta accacaggaa aaaataaact cttccatccc ttaaagaata 5220
gaatagtttg tccctctcat gggaattggg ctgtatgtat attgttcttc ctcttagaa 5280
tttagagata caagagttct acttagaact ttcatggac acaatttcca caacctttca 5340
gatgctgatg tagagctatt gggaaagaac ttccaaactc aggaagt tttg cagagagcag 5400

acagctagag ataactcggg acccagagtt ggtcgacaga tgtagatgt atcctagctt 5460
ttagctataa accactcaaa gattcagccc ccagatccca cagtcagaac tgaatctgcg 5520
ttgttgggaa gccagcagtg gccttgggaa ggaagccatg gctgtggttc agagagggtg 5580
ggctggcaag ccacttccgg ggaaaactcc ttccgcccc a ggtttcttct tctcttaagg 5640
agagattgtt ctcaccaacc cgctgccttc atgctgcctt caaagctaga tcatgtttgc 5700
cttgcttaga gaattactgc aaatcagccc cagtgccttg cgatgcattt acagatttct 5760
aggccctcag ggttttgtag agtgtgagcc ctgggtgggca gggttggggg gtctgtcttc 5820
tgctggatgc tgcttgtaat ccatttgggtg tacagaatca acaataaata atatacatgt 5880

<210> 732

<211> 4766

<212> DNA

<213> Homo sapiens

<400> 732

attttaaaac tgaggaagag ctgctatcat atatacgtga aaattaccaa aagactgtgg 60
ccacaggaga aatcatgttg tatgcatgtg ctcgaaacat gatctcaacc gttaaaatgt 120
tcctaaaatc aaaaggcacc aaggaattag aagtgaactg cctgaatcaa gtaaaaagta 180
gtctcttaaa aactagtaaa agtcttcgac agaatctagg aaaaaaactg gataaggaag 240
acaaagttag agagtgccag cttcaggtat ttcttcgttt ggagatgtgt ctgcaatgcc 300
cttcaataaa tgaaagtaca gatgatatgg aacaagtagt ggaggaggtg acagatttgc 360
tgcgcatggt gtgtttaact gaggattcag cgtacctagc agagtctctg gaggaaattt 420
tgagattgta tattgactct atcccaaaga cacttggaaa tctttacaac agcctagggt 480
ttgtgattcc tcagaagctg gctgggtgcc ttcttacaga ttttttcagt gatgactcca 540
tgacacaaga gaacaaatca ccacttcttt ctgtgccttt tttgtcaagt gctcgtagat 600
cagtgtcagg cagccctgaa tctgatgaac tgcaggaact tcgtaccaga tcagccaaga 660
agagaaggaa aaatgcatta ataagacata aaagcattgc tgaggtttca cagaatcttc 720
gacaaattga aattcctaaa gtgtcaaaga gagctacgaa aaaagagaac tctcaccctg 780

ctcctcagca gccttcccag ccagtgaaag atacagtgca agaagtgacc aaagttcgaa 840
gaaatctttt caaccaggaa ttgctttccc cttcaaagag atcactaaag cgggggttgc 900
ctagaagcca ttctgtgtca gctgtggatg gtctagagga taaacttgac aacttcaaga 960
agaacaaagg ttatcacaaa ctgctgacta agagtgtggc cgagactcca gtgcataagc 1020
agatctccaa aaggctgctg cacagacaaa tcaagggcag gtcctctgat cctggtcctg 1080
atattggtgt tgttgaagag tcccctgaaa aaggagatga aataggtctg agacgaagtc 1140
ctcgaatcaa gcagttgtca tttagcagga cacattctgc ctccttctat tctgtgtctc 1200
agccgaagtc tcgaagtgtg caaagagtcc actctttcca gcaagataag tcagacacaaa 1260
gagaaaattc tccagtccaa agtattcggc ctcceaagag tcttcttttt ggggcaatgt 1320
ctgagatgat cagccctca gaaaagggtt cagctcgaat gaaaaagcgt tcaagaaaca 1380
ctttggattc ggaggtacct gcagcttacc agactcccaa gaagagtcac cagaaatctc 1440
tgagcttttc taaaactaca ccaagaagga tctctcatac accacaaact ccgttgtata 1500
ctccagaaaag gctgcagaag tcccctgcaa aaatgacccc taaaaagcag gcagctttta 1560
aggagtcctt aaaagactcc tctcaccgc gccatgactc accattggat tcaaaaatca 1620
ctcctcaaaa acgacatacc caggcaggag aaggtacctc tcttgaaacg aagacaccaa 1680
gaactcctaa gaggcaaggt actcagccgc ctgggttttt gccaaactgt acttgccac 1740
attcagtga ttccagtcca gaaagccct cctgtccagc cctccaact tcatcgactg 1800
cccagcccag gagagagtgt ctactccca tcagagaccc tctcagaaca cctccgagag 1860
cagcagcctt catgggcacg cctcagaatc aaacacacca acagcccat gtcctcagag 1920
ctgctcgggc agaggaacca gccagaaac taaaggataa agctatcaaa actccaaaaa 1980
gaccagggaa ttcaactgtg acttcttccc cacctgttac gccaaagaaa ctgtttacct 2040
ctcctttatg tgatgtctcc aagaagagtc catttaggaa atctaaaata gagtgtcctt 2100
ccccaggaga actggatcag aaagagcccc agatgtcacc cagcgtagct gcatctctct 2160
cctgccctgt tccctcaact ccccctgaac tctcacagag agctacattg gacaccatcc 2220
ctcctccacc ccttctaaa gttgggaaac ggtgtagaaa gacctctgat ccagaagga 2280
gcatcgtgga gtgtcagcct gatgcctccg ctactcctgg ggttggcaca gctgacagcc 2340
cagctgcccc cacagactct agagatgacc agaagggact gagcctctct cctcagtctc 2400
ctcctgaaag acggggctac ccaggccctg gtctcaggag tgattggcat gcatcctctc 2460
ctctgctcat tacaagtgac acagagcatg tcaactctct cagtgaagcc gaacaccatg 2520

gcattggtga cttgaaaagt aacgtcttat cagtggaaga gggtagagggg ctaaggacag 2580
cagatgctga gaagtcttct ctgtctcacc ctgggattcc cccatctcct ccttcctgtg 2640
ggcctggctc tcctctgatg ctttcccgtg acgtgcactg taccacagat gggagacagt 2700
gccaggcttc ggcacaacta gacaacctgc cagcatcagc ttggcattcc acagactctg 2760
ccagcccaca gacctatgag gttgagctgg agatgcaagc ttctggcctt cccaaacttc 2820
gaattaagaa gatagacccc agctcttcat tagaggctga gcccctcagc aaggaggaga 2880
gctctctggg agaagagagc ttcctccctg ctctcagcat gcccagggcc agcaggtcct 2940
taagcaaacc tgaaccacc tatgtgtcac cccctgccc ccgctctcc cacagcacac 3000
ctggcaagag cagggggcaa acctacatct gccaggcctg taccaccacc cagggcctt 3060
ctagtacccc ctctccattt caaacagatg gggttccttg gacaccatcc cccaagcaca 3120
gtgggaagac aactccagac ataattaaag actggcccag gaggaagagg gcggtgggct 3180
gtggcgccgg ctctcttcc gggaggggcg aggtcggtgc agaccttctt gggagcctgt 3240
cactgcttga gtcagagggc aaggaccacg gccttgaact cagcatccac aggacgcca 3300
tcttggagga ttttagctc gagggagtgt gccagctccc agaccagtcg cctcccagga 3360
acagcatgcc taaggccgag gaagcctctt cctggggaca gtttgggttg agttccagga 3420
agagagtcct gttggccaag gaagaagctg accgtggagc caaaaggatc tgtgacctga 3480
gagaagattc agaagttagt aagagtaaag aggggtctcc aagttggagt gcatggcagc 3540
taccctccac gggagacgaa gaggtgtttg tttccggctc caccacact cccagctgtg 3600
ccgtgcggag ctgcctctct gccagtgcc tccaggctct gaccagtct ccgctgtgt 3660
tccaggggaa aacaccttc tctcagagca aagaccccag agatgaggat gtggatgttc 3720
ttccctccac tgtagaagac tctcctttca gtcgctttt ctccaggagg cgccccatca 3780
gcagaactta tacacggaag aagctcatgg gaacctggct ggaggactta tagccacaaa 3840
cattactgag cccaaaagat caaggagtca gccaggaccc tgtggacata aagaagttgg 3900
atgcctggct ccaagcctct tttgccatgg tcagtgttca gattgccatt agaatgcctt 3960
agggttttct aattcccctt atggatccaa tccatctcct ggccctgccc cttgttgggg 4020
aagttgcagg aggagaggtg gatggcaatg tgattggtgc tataactcag gcagcctggg 4080
agtcaggaa cagacaagg aatcccattc cagcctcacc ccaaccatga ctttgcaag 4140
tcagggggcc actctgcctc atttatgcaa atggagaaag gcgccctccc tggggtccct 4200
tgagctgctg taaggctggg ctgctgcgac acaggcagcg ctttgtaaac tgtgaagcca 4260

tatacgtgaa actgaagagt gcattgggca gtggaagcta ttttttgcct tccctgtgta 4320
acagtaaaat catctctagt gactgagcac tcagtacatt tttgtttaat gttgggcctg 4380
agggttaactg tgaccatggg ccagcttgag tggcttctgg agcagccaca ttttcaagga 4440
ctgtccaaga gccagccagt tcagggtca ggcctcacc attgcccact cctggggaga 4500
ccatcacctg gctcatcggt tccaccaaga gtgccccaca ggagtgtccc acagaccgc 4560
tggaccagcc tgctgcggt cctggccagg ggtctggcta acggtgaggg ctgactctga 4620
actgtctctc agtctccaga aagtgttcaa gcctgttgtg ttcccaaatac tgattcctcc 4680
tattgtcttg taaatcaaac tctaagtga aacttcccat ttgtcccttc aaagattttt 4740
ttttattaaa tggtttttta agatcc 4766

<210> 733

<211> 3821

<212> DNA

<213> Homo sapiens

<400> 733

atctaaagga actggtttta atcctaatagc caaagtatgg caagaaattg ctcttgaaa 60
tactgatgcc accccagtaa ctcatggaac tgaaagctct tggcatgaaa tagcagctac 120
atcagggtgct catcctgagg tgtctgtctt taatacaggt aatgcagagc tctcagaaga 180
tatatgtaaa gaatatgaag taatgtattc ttcatcttgt gaaaccacaa gaaatactac 240
aggcattgaa gaatcaactg atgggatgat tttaggacca gaagatctga gttaccaaata 300
atatgatgtt tccggagaaa gcaattcagc agtttctaca gaagacctaa aagaatgtct 360
gaagaaacaa ttagaattct gtttttcacg agaaaatttg tcaaaggatc ttacttgat 420
atctcaaata gatagtgatc agttcatccc aatttggaca gttgccaaca tggaagaaat 480
aaaaaagttg actacagacc ctgatctaata tcttgaagt ttaagatctt ctcccatggt 540
acaagttgat gagaagggtg agaaagtga accaagtcata aagcgttgta ttgtaattct 600
tagagagatt cctgaaacaa caccaataga ggaagtga ggtttgttca aaagtgaata 660
ctgccccaaa gtgataagct gtgagtttgc acacaatagc aactggtata tcactttcca 720

gtcagacaca gatgcacaac aggcttttaa atacttaaga gaagaagtta aaacatttca 780
gggcaagcca attatggcaa ggataaaagc catcaataca ttttttgcta agaatggtta 840
tcgattaatg gattctagta tctatagtca ccccat tcaa actcaagcac agtatgcctc 900
cccagtcttt atgcagcctg tatataatcc tcaccaacag tactcggtct atagtattgt 960
gcctcagtct tggctctcaa atcctacacc ttactttgaa acaccactgg ctccctttcc 1020
caatggtagt tttgtgaatg gctttaattc gccaggatct tataaaacaa atgctgctgc 1080
tatgaatatg ggtcgacat tccaaaaaaa tcgtgtgaag cctcagttta ggtcatctgg 1140
tggttcagaa cactcaacag agggctctgt atccttgggg gatggacagt tgaacagata 1200
tagttcaaga aactttccag ctgaacggca taaccccaca gtaactgggc atcaggagca 1260
aacttacctt cagaaggaga cttccacttt gcagggtggaa cagaatgggg actatggtag 1320
gggcaggaga actctcttca gaggtcgaag acgacgagaa gatgacagga tctcaagacc 1380
tcctccttca acagctgaat caaaggctcc aacaccaaag tttgacttat tagcctcaaa 1440
ttttccacct ttacctggaa gttcatcaag aatgccaggt gaactcgttt tggagaatag 1500
gatgtctgat gttgttaaag gtgtctacaa agaaaaggat aatgaagagt tgacaattag 1560
ttgcccagtg cctgcagatg agcagacaga atgcacttct gccagcaac tcaatatgag 1620
taccagttct ccatgtgctg ctgagcttac tgcattaagc acaactcagc aagaaaagga 1680
tctaataгаа gattcctctg ttcagaagga tggcttcaat cagacaacta taccagtttc 1740
tcctccaagt actacaaagc catcgagggc aagtactgct tcaccatgta ataatacat 1800
aaatgcagct acagctgtgg ctctacagga accccgaaag ttaagttatg ctgaagtgtg 1860
ccagaagccc cctaaagagc catcttcagt tcttgtgcag ccactacggg aacttcgctc 1920
caatgtggtg tctcccacca aaaatgaaga caatggagct cctgagaact ccgttgagaa 1980
accacatgag aagccagaag caagggctag taaggattat tctggcttcc gaggcaatat 2040
aatccccagg ggagcagcag gaaaaatcag ggaacagaga cgccagttta gccatagggc 2100
tatactcag ggagtgactc gacgtaatgg caaagagcaa tatgtgccac ccagatcacc 2160
aaagtaaaaa acaacaaaac tattcaaaaa cttcactctc ttccattaa acttgaactg 2220
tggctatatt gaactgtttt ggaggggagg gggtagccag gaaggaaaca agagaaagta 2280
cgtccatttc attatggatc ttggagttgt gagtgatggg atcccaaat tcatctctaa 2340
tgtggttttt aaatgctgga ggattccaat caatataaat atatatatat atatacacac 2400
acatatataa aaagtataat ttttctattt ttgtttttgg ttttaatttg cagagatttg 2460

ctgccaggaa tcaattttga gggttcagat ttagcttgga agaaaaaaaa gaaacataca 2520
 tccttcagta taggagatga gggaatgaga gaaaatattt tttgaagaag catttctgta 2580
 aaattagaaa ttactttttt taatctattt aaagtttggc ttgaagaatg ccatctctga 2640
 ctatatggcc ttgtattgca aagcagatca gtggctgggg tgcctgttgt ggggtgtgagt 2700
 gtgtacaaga gcgattgaag ccaaactctgt tgtcatgtta gtaaattgatt tgaaaactga 2760
 atgtaatact tgagtagatt tttttttcta gtttgaaatt tagtctgtct ttttgacctt 2820
 actaatattt catttaacaa gttgtaaaac tctgattgta cttagagatg tgactacca 2880
 tcagtttgat actcaaggaa aggggggttat tcaagaaatt gaaaatttca tcttggaact 2940
 cagtgcacg gtcaaatgga tttcagagggt ttaaacttcc ctgtgattcc ccctgaatac 3000
 ccccaaaatg agaaacaaaa ttttttttct tactccattt gttactctct gttctttgac 3060
 tgcccacca cagaaaagca aaataaccaa ctacctactc aattgtgtgt ttgtaattgc 3120
 tttgagcagt ctagtcaaat catataaatt gttctaaatt tcagaattga acattgaagt 3180
 attaactctt ctgttcacac atttagaatt ttagctccca agatggtagg gcagactgac 3240
 cgtacagtaa tttatttgtc gttagtgtta aagattaagc atagtaactg actcttaagt 3300
 gttaaataat gtagaagtaa aaaaattttt tttaaaggct taatttggga ggggggactt 3360
 atttctgttt acagtgtatt accttccttc cctcctcttc tccccccaca cccaacaaaa 3420
 tacagtttgg aattcactga aacagtacca gcaagtcatg agatttttta gtaaagatga 3480
 gaaagatggt tgaagaaaat tagtgcataa tttctcagtg aataaagttg tagctctcat 3540
 atactaaata gacaagtta catgctgtta tttagaaaat gactaaaata ttaaaaaccg 3600
 tgttgtgtta atctgtttta agtcatacca tgttcagagt tctatgtaag gtgggtttta 3660
 tttttctttt aagggatagt ttgtaatagt aagaactgtc ccatatgtta gtaaattaca 3720
 tatgtacaaa ttgaaactgt aaattgtgaa cactggaaag caccattgtg acatagagta 3780
 aacatcttag taatatatta aagtgaatgt aaatggtggt t 3821

<210> 734

<211> 3981

<212> DNA

<213> Homo sapiens

<400> 734

aaacccaatt cctggtgtcc cctagtcttg gcggaggagc cttttagatg agccccgaaa	60
ggccgggcag ggaggacaag ctctttgggg ctaccaaaaca gaagcagcaa tgcctgttgt	120
gtggccaacc cttctggatc tcagcaggga tgaatgcaaa agaattcttc gaaaattgga	180
attggaggca tatgctggag ttatcagtgc acttcgggca cagggggatc tcaccaagga	240
aaagaaagat cttcttggag aactatcaaa agttcttagc atctcaacag aacgccaccg	300
tgctgaagtt cggagagcag taaacgatga acggttaaca acaattgcac ataatatgtc	360
tggacctaat agctcttcag aatggtccat tgaaggctgt cgattggtac cactgatgcc	420
ccggctcgtt ccccaaaccg cttttactgt aacagctaata gctgttgcta atgcagctat	480
ccagcataat gcatctcttc cagtgcctgc agaaacagga agcaaggaag tagtggtttg	540
ctattcctac acaagtacca cgtcaacccc aacctctacc cctgttccaa gtggcagcat	600
agcaacggtt aagtctccaa gacctgccag tcctgcctcc aatgtagttg tcttgccaag	660
tggaagtact gtttatgtca aaagtgtgag ctgttcagat gaagatgaaa aaccagaaaa	720
acgaaggcga acaaactctt ccagctcctc tcctgttgtt ctaaaggaag ttccaaaggc	780
cgttgttcca gtctcaaaga cgatcactgt gcctgtgagt ggtagtccca agatgagcaa	840
catcatgcag agcattgcca actccttacc accccacatg tctcctgtaa aaatatcctt	900
cactaaacca tcaacacaga caacaacac aacaacacag aaggttatta tagtcaccac	960
atcaccaagc tcaaccttcg tgcccaacat tctctccaaa tcccataact atgcagcagt	1020
cactaagctt gtaccaacgt cagtcattgc ttctacaacc cagaagccac cagttgttat	1080
aactgcttca cagtcctctc tggtcagtaa tagcagcagt ggcagcagca gttctacacc	1140
atcacctatt cctaatacag ttgcagtaac agctgtggtg tcctctacac catctgtggt	1200
catgtcaaca gtagcacaag gtgttaaaat catcacacaa caggttcaac caagtaaaat	1260
cttaccctaaa ccagtgcag caactctacc caccagtagc aattccccta ttatggtggt	1320
tagcagtaat ggtgcaatta tgacaactaa actggtaacc actcctactg gcacacaagc	1380
aacctatacc cggccaacag tgagcccatc cattggtcgg atggctgcaa cccctggagc	1440
tgcaacctat gtgaaaacta cgagtggtag catcattaca gtagtaccac aatcattagc	1500
taccttgggg ggcaagataa ttagcagtaa tatagtttct ggaacgacta ccaaaatcac	1560
tacaatccca atgacttcca agcccaacgt gattgttgta caaaagacta caggaaaagg	1620

aacgaccatt caaggcctcc cgggcaaaaa tgttgtcaca acgttgctaa atgctggagg 1680
agaaaagact attcagacag tgccaacagg agcaaagcca gctatcctta ctgctacaag 1740
acccatcacc aaaatgattg taacgcagcc aaaaggaata gggttctacag ttcaaccagc 1800
agctaaaatc atcccaacaa aaattgttta tgggcagcaa gggaaaacgc aggttcttat 1860
taaaccctaaa ccagtgactt ttcaagcgac agttgttagt gaacaaacaa gacagctagt 1920
aacagaaaca ttacagcaag catccagggt agcagaggct ggtaattcat ctattcagga 1980
aggaaaagaa gaaccacaga attatacaga tagtagttac tcttctacag agtcctcccg 2040
gagttcccaa gattcccagc ctgtagttca tgtaattgct tcccggcgtc aggattggtc 2100
agaacatgag attgcaatgg agactagccc taccataatt tatcaggatg tatccagtga 2160
atcacaatca gctacttcaa caatcaaagc tctgttagaa ctccaacaga caacagtaaa 2220
ggaaaaattg gaatctaaac caagacaacc cactattgac ctgagtcaaa tggcagtgcc 2280
tattcagatg acccaggaaa agagacattc tcttgagagt ccatcaattg ctgtggtaga 2340
gtcagaacta gtagctgaat acatcactac tgtcagccat cgctcccagc cccaacagcc 2400
ttcccagccc cagcggaccc tgctccagca tgtggctcag tcacagaccg caacacagac 2460
ttcgggtggg gtgaagtcca tcccagcatc tttccctgga gcaatcacc acattatgca 2520
gcaggcatta agcagtcaca ctgcttttac caaacacagc gaggaacttg gaactgagga 2580
gggcgagggt gaagagatgg acactttaga cctcagaca ggtctgtttt accgatctgc 2640
cctgactcag tcacagtcag ctaaacagca gaaacttagc cagccccgc tggaacagac 2700
tcagctgcaa gtgaaaactc tgcagtgttt ccagactaaa cagaagcaga ccatccacct 2760
gcaggcagac cagctccagc acaaactccc gcaaagtccc cagctttcca tcaggcatca 2820
aaaactcacc cctctccagc aagaacaagc acagcccaag ccagatgtac agcacacaca 2880
gcatcccatg gtggccaaag acaggcagct tcttacctta atggcacagc ccccgcaaac 2940
tgtagtacag gtgcttgag tgaaaaccac gcagcagctc cctaaactgc agcaggctcc 3000
gaaccaacca aaaatctacg tgcaacccca aacccccag agccaaatgt cgctcccagc 3060
ttcttcagag aaacagacgg caagccagggt ggagcagcca attataacc aaggatcctc 3120
tgttacaaag ataactttt aggggcgcca gcctcccaca gttacaaaga taactggtgg 3180
cagttctgtg cctaagctga catcaccagt tacaagcata tctccattc aggcctctga 3240
gaagacagca gtgtctgaca ttttgaaaat gtctttgatg gaagctcaga ttgatacaaa 3300
tgtagaacat atgatagtgg atccccaaa gaaggctctt gccactagca tgctcactgg 3360

tgaagcagga tcattaccct ccacccacat ggtggtggca gggatggcga attccactcc 3420
 ccagcaacag aaatgtagag agtcctgttc gagtccatcc actgttggct cttccctaac 3480
 gacaaggaaa attgatccac cagcagtgcc tgcgacaggc cagttcatgc gtattcagaa 3540
 tgtaggcaa aagaaagctg aagagagtcc agcagaaatt atcatccagg ctattcctca 3600
 gtatgctatt ccttgtcact ccagctccaa tgtggtgggtg gagcccagtg ggcttcttga 3660
 gctaaacaac ttcactagtc aacagctgga tgatgaggag acagcaatgg agcaggacat 3720
 agacagtagc acggaggatg gaactgaacc cagcccttct cagagctctg ctgaacggtc 3780
 ctagtgtttg gacacaatag tgcactttta aacctgcttg gttaccaagt gtccagggaa 3840
 acccttgat tttgatgact aaaaagagca ctttgcccgt acttaggctg tggaccctaa 3900
 aacagcagt tttcaacaag atgttgctgc aggagcagct ttttaaaca agataaaact 3960
 cacaggggga tgtacttttt t 3981

<210> 735

<211> 4736

<212> DNA

<213> Homo sapiens

<400> 735

attcctggaa cctctttccc aaagcggcag tcgatccctg gtctccacgg cggatgcagcc 60
 tcagcctcct cgcttttcac ggtcggttg ggcgtccctt cggaatgcct tctcactga 120
 tgggtgcttta ttaggattcc tcttgtgctt aattacctcc tagcctcctg ctggcagcgg 180
 ggtgccgcct cctcaccgta attaggtcc gtcgagagcc ctttccttc ttgccagccc 240
 cagcaggctc agagtggcc gaagccaggg gggaggggac ggccatggga acccagcggc 300
 gtgaccctg ccctcggcga cggggccaag gtcaaggcca gagttgttgg ccagaccac 360
 atagaacctc aagacacccc cttatctct ctcgcaccgc gaacgtgagc ccagcgccctg 420
 gacgtggaga attcctatct gaggaggggc gctgggggta ggtgccagtg cttgggcccc 480
 cggcagccta aaccactcct ttaagtggc cgacgggtgc tggggaaatg tcccatctgg 540
 aaccaggga tcccccaag agcggcttcc ctctgctctt agatgcgaga aggaagtct 600

gattttgcgg acaccggga ggtggccagg gccaggcaga ctctgccaag tgcccttcca 660
gcttctggtc caacgaggga acactttggg atgagagtta ccggcttgtc ggaactcctc 720
tggtgacgat ttgtgggtgg agcacacaca agtgtagagt tatagctgag gtctttacct 780
ttccgtcttc caggcagcct tctgtgcctc tgctctgaga acatgagact catccttgat 840
tctggcacac ggggtgttact tggtcacatg aaataaaagg ttacgggcat ggtggttcac 900
gcctgtgatc ccagcgcttt gggaggccga ggcggatgga tcacgaagtc aggagaggac 960
cggcctggcc aagatgggta aaccccggtg ctactagaaa tacgaaaatt agccgggcat 1020
ggtggcaggc gcctgtaatt ccagctactt gggaggctga ggcagagaat tgcttgaacc 1080
caggaggcgg aggttgcatg gagccaagat tgcgccactg cactccagcc tgggtgacag 1140
agccagactc cgtctcaaaa aaaaaaaaaag aaagaaaaac ggggtcttgt tctgttgctc 1200
aggctggagt ggagtgggtg gatcacagct cactgcagcc tcaacctcct gggtcctggg 1260
ctcaagcaat cctcctgcct ctgcttgctt ggtggctggg acctcaggcg cacatcagca 1320
cacctggccg actttttttt gtatgttttt gtagggatga gatctcacta tgttgcccag 1380
tttggctctca agctcttgag ctcaagcgat cctcccgctt gggcctccca aagcgctggg 1440
attacaggca tgagccacta tgtctggccc taatggacgg tgtagacaa tgacaggagt 1500
gcacataaga gatcaaaact agaacttgca taattagtat tatttattaa gcaccagag 1560
aacagtcaag accaaagtcc ctgcttgtcc ttggaaaaat gtcacctcta tagcaggtgt 1620
cctaaccctg cagtccacc acccttaggaa gtccttgaat agctctctgg gggaaatcta 1680
tcagctgcct gaagagcttt gtgtgtattt gtacaccagc attttcctga ggaaggaggt 1740
gcctggcttc atcagtttct caaagggtct aggacctcaa aagggatcag aatctagata 1800
tttggatacc ctattttttt ttttttttgg cagagggtggg gtctcgctat gttaccag 1860
ctgatctcga actcctgagc tcaaccatcc tcctgcattg gcctctcaaa cagctgggat 1920
tatagtcatg agccacagcg cccggccctg atacctttac gtcagcattt cccaacatac 1980
tgtctcaggg ccacttacct gcaccagaac tacctggaat atttaggaac agactcctgg 2040
cccccaacca aacctcctga gtcagtgttt caggggaggg gactgggata ttttgttttg 2100
caccgactcc ctaggtgatt ttgatgctta gccaaatgag aaccattgtt cggagctaac 2160
atataacaca gcaaacaact gtgtctgtgt cctctccttg ggagagaact ccagaagtaa 2220
gttgctttgt tgcatgggga gggggagtgt tggaaatccc actgggatgt gtcgtttccc 2280
ccatatgtgg cactaattga gctggaatat ccaggagag gcagcagttc tagggatggg 2340

agcaaggcca gccagcctgc cagagacaca ggtgtggttt tggtcggaga atgcatgac 2400
tgagttaatc cctccatacc aggttccacc ccagctccac aacatcctgt ctgtctcccc 2460
agacaaacca gcccagatcc tcctgggccc cagaaagatg acacagctgc ccccgcccc 2520
atctcctggc ctggaccac ttggcttctt atcttgggaag acaatggttg agattccagg 2580
gcagaagcat ttttaaggct ctacctaaaa cggccccacc ccagcttcat tcctcctcca 2640
tcttgtcccg cacttctgcc ggcagaccct ggtaaagcgt gtcttccacc aggagccccg 2700
ccttcttgag cccccacag ttgccaagtt cttctggcag cgcctctaag cggttgcctt 2760
tgagctccag gcggctgagg gctctgaggg caccacgtg gggcgagagc tggctcagct 2820
ggttgtcgcc cagaagcaac gtccgcagct tgcggcagaa gaagagctct tcgggcaggg 2880
cctccagggc attgtaggag agggccagggt gctgtaggtt ctgcaggagg ccacctcgg 2940
gtggcaggga gtgtagcca ttgtgggaca catccagcag acggaggcct gagcacaggc 3000
cgagctggga gggcagggtc tccagcttgt ttagctgag gtagagctgc tccaggctcc 3060
tgagcttccg cacgtgctca gggacgtagg cgatctggtt gtgccacagc ctgagcgtga 3120
ccagcttccg gcagtgtgga aagctgagga tttcctcgat ggagcgcagg tggttgtcct 3180
tgaggtaag ttcctgcagc gcaccaggc tgaacactgc atgggggatg cgctccagcc 3240
cgcaggccac cagctccagc tcccgcaatg ccgccagctt cttgaggctg ttcagggcaa 3300
ccagacgggc cccatcgttg tgcaggctga gcctctgcag gtggccagca acgtcggta 3360
cactggctgg caccttcccg gcgttgctcc ggagggacaa caccttgagc tgcttcagct 3420
cccggagggt ctccagggtg gctgcccag ctagctcctg ggggaaaagc ccctccaggt 3480
gcagctcctc caagccccgc agcccaaaca ccaaagcgg cacctcgcgg agctcctcgc 3540
atttgacgcg catcaccttc aggtgggtccc gcaggaagac ctgcaaggag aagggtagcc 3600
tggcgggcga gtggagcaag ctgagctcct gcaagtgcac cagctgtgac agccccgggg 3660
ggaaggtgat atcgcatg gcctccagcc tgagtactc cacctcactg agctcaaaga 3720
cgggtgtcggg cagaccggc agcatgcaga gggccagctc cagccggccc gcggcattgc 3780
gctgcagctt cagtcgaagc ttctcgggcg tccactcgtg gttgagattg agctgcttta 3840
gacggctttc gctgacctcg gacaggaaga cggcgaagcg cttggagtag agggagtcgt 3900
actgatcgat gaggtgcagc atgaaggcga agtcattctt gacgtcagga atgtcccca 3960
tgccagtctc ctccgcacg gaacggaagg agtactcctt gaggggcccgg tggaagagcc 4020
agtagagcgt gtagatgcag gtaagtccgt agatgcacac aaaggagatg taacagaagg 4080

ccagcttgga gaagaggtgg gccttggtgt ggttgcagca gaagctggcg tagcccgtag 4140
cctctgacgt ctccacccta caggccacca ggaaactgat cttctccaca tagaccaggt 4200
tgtagaccag gatggccagg aacttacaca ctttcagcac cgtctgtcgg atgtacatgg 4260
tgtacaggat gtcgccctct tccacatgca tgcggaactt cttcaccttc tcaaacaggg 4320
ctttggcttg ctcaccctcc ttcttgtcca acagggtgac aactggaggc tcggtcacca 4380
ccttctccgg ttccgccagc actttctcct tctcaccttc ccctgccttc cccggcccgg 4440
tccctgccat ggccactatg gtggccgcag cccgttcggt ggctgctggg cccttctggt 4500
tctccccgga gacctcgat agggccctgg tggatccatgg agagtcgaaa cacttgccca 4560
ggatggagat gaagtgttca atcttggagc tggatccagg gaacttgaac cagaaactgg 4620
tgcagaccat gaagatgagt gtgtgaatga ccacgaggta agggaagtac ttggcatacc 4680
agtgcagggc cgtctcataa cacagctggt taataaagct gtattgctgc aggtcc 4736

<210> 736

<211> 4910

<212> DNA

<213> Homo sapiens

<400> 736

gttccagatc aaataatctg attgtagcaa atttggggaa gttgaaagtc aaaaataagt 60
ttctgtttgc tggttttcct ggcacctttt ccctacaaga taaggaatct gtgccttcag 120
cttccccaac ggggtattccc aaacacagtc tgaggaaaac gacaagcacg gaggagccca 180
ggggaacca ttcccagggg cagttcacga tgcctcttgc tggaatgagc ctaggaagcc 240
tgaagagtga gtttgtgccc agtacctcca ccaagcagca agggccgcaa cccacactgt 300
ctgttggcca agagtccagt agtccagaag accatgtctg cctgctggat tgcgttgtcg 360
tggatctcca ggacatggac atctttgctg cagagagaca tccgagagaa tactcgaagg 420
caccagagga tagtagtgga gatctgatct tcccttccta ttttgtgcga cagacaggag 480
gaagcctctt aaccgagcct tgtaggctga aattgcaggt ggaaaggaat ttggacaaag 540
aaataagtca tactgtgcca gacatatcta tccatggcaa tctctcctca gtccactgct 600

ctctggatct gtataaatac aagctgatcc gcggcttatt agagaacaac ctgggagaac 660
ccatagagga atttatgcgg ccttatgatt tacaagatcc aagaattcat actgtcctga 720
gtggagaagt gtacacctgt atgtgcttcc tcattgatat ggtgaatgta agtctggagc 780
ttaaagatcc aaaaagaaaa gaagggtgctg ggcccttagc cagatttgac ttcaagaaat 840
gcaaactgct ctatgaaagt ttttccaacc aaaccaagtc cattaacttg gtttcccatt 900
ccatgatggc ttttgacacc cgttatgctg ggcagaagac cagccctggc atgacgaatg 960
tgttcagctg tatctttcag cccgctaaga acagcagcac cacccaaggg tccattcaga 1020
ttgaactaca tttcagatct accaaggatt cctcctgctt tacagtagtt ctcaacaatc 1080
tccgtgtgtt tctcatatct gactggctac tgtagtcca tgattttctc cacactccca 1140
gtgatattaa gaaacaaaat catgttactc cttctcgcca ccgtaactct agcagcgaat 1200
ctgctatagt tcccaaaact gtgaagagtg gagtagttac caagcggctt tcccttcctg 1260
tgtccaatga aaggcacctg gaggtcaagg tcaatgtaac aggtacggag tttgtgggtca 1320
ttgaagatgt gtctgtcttc gacaccaatg ccattattct gaaaggcacc acagtgtctca 1380
cctataagcc ccggtttgtt gatcgccctt tttcaggaag tttgtttggc attgaggtgt 1440
tttcatgccg actagggaat gagcatgata cagctcttcc aattgtggat cccgtacaaa 1500
ttcaaagtga gttgggtggg aattcttctt atcaaaatag ttcaggattg atggatgcat 1560
tcaatagtga agatttccca cctgtcctgg agattcagtt acaagccctg gatatcagac 1620
tctcctataa tgatgttcag ctgtttcttg ccattgcaaa atccatccca gagcaagcta 1680
atgctgcagt gccagactca gtggccctgg agtcagactc cgttggcact taccttccag 1740
gtgcatctcg cgttggagag gaaatcagag aagggacaag acacacctta gatcctgtct 1800
tgagattaca gctggctagg ctgcaggagc tgggattcag catggatgat tgtcgcaaag 1860
ctcttttggc gtgtcaaggc caattgaaaa aggagcaag ttggttgttt aagaatgcgg 1920
aacctctgaa gtctctttcc ttggcctcca ccagccgaga tagcccaggg gctgtggcag 1980
cgccattgat ctctggcgtg gagatcaaag ctgagagtgt gtgcatctgt ttcacgatg 2040
actgcatgga ttgtgatgtt cctctcgctg aactcacctt ttcccgtctg aattttcttc 2100
agcgtgtaag aactagccct gaaggctatg cccacttcac cttttctgga gattattata 2160
accgtgctct ttcaggctgg gagccattta ttgagccttg gccatgctct gtatcctggc 2220
aacagcaggc agctagtcgt ctccatcctc ctgactgaa gctagaagcc aaggccaaac 2280
ctcgtttgga tatcaatata acttctgtgc taattgacca gtatgtaagt accaaggaat 2340

cgtggatggc agattactgt aaagatgaca aggacataga gtcagctaaa tcagaagact 2400
ggatgggctc ttcggtggat cctccatgtt ttggacaaac agaggtgaaa accccaagc 2460
gccggcagcc ctttgtcccc ttgtctctga ggaaccacac ggggtgcact ttgtggtttg 2520
ccaccctgac caccacacc accagagctg cactctctca cagtgggagt ccaggggtag 2580
ttccagaagg gaacggaaca tttctcgatg atactcacia tgtagtgaa tggcgagaag 2640
tccttacagg tgaagagatt ccctttgaat ttgaagcaag aggaaagtta agacacagac 2700
acacccatga cctccggatt catcaactgc aagtgagagt aaatggctgg gagcaagtga 2760
gcccagtgtc tgtggacaaa gtcgggacct tttttcgata tgcagcacca gataaaaatt 2820
catcttctc tacgattggc agcccaagca gcagaacaaa tattatacat cccaggttt 2880
atttctcttc actcccacca gtgcgggtgg tctttgcagt gactatggaa ggcagtgcac 2940
ggaaagtcac cactgtccgg tcagccctca ttgtgaggaa cagacttgag acaccaatgg 3000
aactaagact ggatagccca tcagctccag acagtatgtt ttgattgtct agcatatagt 3060
aaatgctgat aaatacttct tgactgttgt caagtctctt tttccccagt ggtatcttcc 3120
ccagcagtca gtatatatgg tctgtcttct tttgtcctga gatggccaat ctttggggtg 3180
gaggaccatt gcctgaaagt gttaaccctt atttctgtgg cagagccagt ggtgcttctc 3240
gctatcatgc caggggattc gtttgctgtg cctttacacc tcacttcttg gcggctacag 3300
gcccggccca aaggattggg tgtatttttc tgtaaggctc ccattcattg gaccaatgta 3360
gtgaagactg cagaaattag tagcagtaaa cgagagtgcc actctatgga cacagaaaaa 3420
agccgatttt tcaggttttg tgtggctata aagaaagaga attatccaga ttatatgccc 3480
tcaaacatat tttctgacag tgcaaacag attttcagac agcctgggca taccatatat 3540
ctcctgcaa ctgtggtaat ctgcaacttg ctaccctgtg aacttgattt ttatgttaaa 3600
ggaatgcaa ttaatgggac gctgaaacct ggcaaggagg cagctctcca tacagctgat 3660
acatcccaga acattgagct gggggatatca ctggagaatt tccccctctg taaagaattg 3720
ctcattccac ctggaacca aaactatatg gtgagaatgc gactctatga cgtcaaccgt 3780
cggcagctga acctcaccat ccggattgtg tgctgagcag aaggatcctt aaagatcttc 3840
atttctgctc catattggct gattaacaaa acagggttgc cactgatctt cagacaggac 3900
aatgccaaga cagatgctgc aggccagttt gaggagcatg agctggcccg tagcctgagt 3960
cctctcttat tctgctatgc tgacaaagag cagccaaacc tctgcacgat gagaatcgga 4020
agggggattc atccagaagg catgccgggc tgggtgtcagg gcttctccct ggatggtggt 4080

agtgggtgtcc gagctttgaa agtcatccag caaggaaacc gccagggt gatctataac 4140
 attgggtattg atgtcaagaa aggccgaggt cgatacattg atacctgcat ggtcatcttt 4200
 gcccccggtt acctgttaga taataaatca tctcacaagc ttgcatttgc acagagggaa 4260
 tttgccaggg gacaggggaac agccaatccc gaaggttaca tttccaccct tcctggttcc 4320
 agtgtgggtgt tccactggcc tcggaatgac tatgatcagc tattgtgtgt cagactgatg 4380
 gacgttccca attgtatttg gtctggaggc tttgaagtca acaagaataa ttccttccat 4440
 atcaacatga gggatacctt gggaaaatgc ttcttcctac gagtggaaat tactctccga 4500
 ggagctacgt ataggatctc atttagtgac acagatcagt tacctcctcc tttccgaatt 4560
 gacaactttt ctaaggtccc ggttgtcttt actcagcatg gcgtagctga acccaggctc 4620
 cggactgaag tgaagcccat gacttcattg gattatgcct gggacgaacc caccttgcca 4680
 ccttttatca ctctgactgt taaaggggca gggtcctctg agatcaactg caacatgaat 4740
 gatttccagg ataatcggca gctttattat gaaaatttca ttacattgc tgctacatat 4800
 acattctctg gcttgcagga gggaacaggc aggcctgtgg cttccaacaa ggccattacc 4860
 tgtgcggagc tcgttttggg tgtctcacc cagacacaaa gattcatttt 4910

<210> 737

<211> 3864

<212> DNA

<213> Homo sapiens

<400> 737

aagggaggag gaagatggcg gcgggggcca ggtgaggtgt tggcagtgga aaggggttcg 60
 ggctcggggg gcggggggac gcggagcgat ggcccgcgcc ggccgcaggg gcggataaaa 120
 agccgtcgcg ctgcgggagt gggcgggagg gagaggggggt gtccgagggc cacaagagta 180
 tgacggggct gtacgagctg gtgtggcggg tgctgcacgc gctgctctgt ctgcaccgca 240
 cgctcacctc ctggctccgc gttcgggttcg gcacctggaa ctggatctgg cggcgctgct 300
 gccgcgccgc ctctgccgcg gtcctagcgc cgctcggctt cacgctccgc aagcccccg 360
 cagtcggcag gaaccgccgt caccaccggc acccgcgcg gggtcgtgc ctggcagccg 420

cacaccaccg gatgcgctgg cgcgcgagcg gtcgttcctt ggagaagctg cctgtgcata 480
tgggccttgt gatcaccgag gtggagcagg aaccagctt ctcggacatc gcgagcctcg 540
tggtgttgtg tatggccgtg ggcattctct acattagcgt ctacgaccac caaggtatct 600
tcaaaagaaa taattccaga ttgatggatg aaattttaaa acaacagcaa gaacttcttg 660
gcctagattg ttcaaaatac tcaccagaat ttgcaaatac taatgacaaa gatgatcaag 720
ttttaaatgt ccatttggca gtgaaggtgc tgtctccgga agatggaaaa gcagatattg 780
taagagctgc tcaggacttt tgccagttag tagcccagaa gcaaaagaga cccacagatt 840
tggtatgata tacgttagcc agtttactta gttcaaatac ttgtcctgat cctgatttag 900
tattgaagtt cggctctgtg gacagcacat taggctttct tccctggcac atcagattga 960
ctgagactgt ctctttgcct tcccaccta acatcagtta tgaggacttt ttctctgccc 1020
ttcgtcaata tgcagcctgt gaacagcgctc tgggaaagta gtggtcattg gttgcataat 1080
ttgatttgag gcttgtggag gaaaggaacc aagtgactct gatgtttaca aagcacctat 1140
gaaaccctgt acacacctag ttcataatcc tcataattta tcaacaaca caaaaaagtg 1200
tcttacttga gagtgagtgt gtgtgtgtgc gtgtgcacgt gcacacatgt gcacgtttgt 1260
atgtatggaa ataaacttat aaatggggac gtattggaga aggaaataca tagacctaca 1320
actttgagca aatagcagtg atgttttagg aactgaaatg tcacacttaa agtcttcagc 1380
ccagctactt ccctatcttt gtggggagaa gagggcctga ttagaactgt tctggttgtg 1440
tttggcggga ggggaataat ttttgttcag tccttcttag tgaccaaact ttaattttta 1500
agaataatat attgacttac tgaactgaag cattctgagt tgaaaggagc tccagaggag 1560
tgagattctg tgttgctcac atgttaaaat cttgctcacc ttcagagcag agggaatacc 1620
tatcttcaga tatccgtcca ttttcatctc ttaattgtag tcaaaagtat gacttgagag 1680
tgttgctctg gtattctggg ttctgaagtc tggattcttg gtattctggg ttcaaaagta 1740
tgacttgaga gtgttgctct ggtattctga gatttgctct gtattctggg ttctgaagat 1800
tatttgaaaa ataactccta ctacattgaa atgcagactt aaaaatttaa acattggatt 1860
aggcagtcaa aaaaaccaag caagcataaa aggtcaataa gttgtaactt tgatagtaaa 1920
ggtggaaaac ttattataaa tggaaagaaa gttttatttc cttttttgtt tgatgggcag 1980
tatgccatat tataccaaa gttcttttaa aaaatatttc catcaaccat ttttatttaa 2040
aataaacatt tgagggaagt taccaaggca gcttttttcc tcaaaagtaa cctgttcctc 2100
tttggaatag cacattttag gggcatgggt aatacctgag atttttactc agtaaactct 2160

gatggttact gtgtgtaaaa tatctttaag taggattgaa ggcctctgtg ggggaataaa 2220
atattaccaa agtctataaa aataaatttt acatgttctc ttttatgaca gagagcagca 2280
ctggttctgt ttttttaaa atgaataatt gatttcttga taggtgttta atatttcttc 2340
cctcactgct gattcttaga tagaaacat tctttatatt tgatagactg ctttcagaaa 2400
acccttatca acaagtgtac aatacttatac taaaactata catttagaat ggagcagttt 2460
aatactagat ctcagaagtt ttgaaaaata gcaaagaaga ctggatttgg aaagcatggt 2520
ctacaattgg ttgttaaatt ctgaagctat gaagaataaa tgtttcaact ttggattatg 2580
aaacccatt tatgattttt taaatacact tgaaataaaa atgattaaac taaattttgg 2640
tccagtgaac ttactttgca ctgcataatc cattatacgt tgtacgactt ttttttttg 2700
ttttaattta ttactgagag ttttgtgtga agctacagca tatctaacca gagaatttct 2760
gattccttat actgtgatta tatttatattg aggcatittgt agtgcagctg aagactgaat 2820
ttatgccttt tgtaaacatg ataggtataa atgtcttata aacattctgg agtatgtata 2880
gctttaatga atgaaattta atggacctga ttaaaatgaa gggatttaat cgttgttaaa 2940
gttaagttag tcaaataaat tacctactgg aatatagccc aagccagtaa aggtttaata 3000
tttgcatitt cgtgctttta ttttctcctt ccattcataa gtatatactt gaaagtacat 3060
ctgtagccta tgatttgagt ctcttgaagt tctaggaaga ggcaaactac aaactactag 3120
gattctgatt tcagatgtag tcattccaga accttctctt tatgagttca cctgctagta 3180
caatctccac aacttgaatg gcattgggtt ttctgttaatt cctgccaaaa gcatcacaag 3240
ttgtacatca tcaaggctcc ctttgcactc ccaagaagaa ctggtaattt taaacaaaag 3300
tatgtgtctt tatttgtatt ggaaaatact gtctttaaat tgtttcttgt tgacactccc 3360
cacaatggaa aaattaccga attaaacctg ttttatggat ggcagcttgg agcatagcaa 3420
gaagttggag gatttgaatt ccattcccag ttctcattgt gttttgtttc ttaaaactat 3480
aataatcggg tactgttata aagtttaaaa ggtggtttta atgtgaatag caaattctgg 3540
tatatcgtga ctaacgctta agaatgcctg tctttgagag gaaggtgtta taatattaat 3600
gaacagtgcc aaatacactg tgcatatctg caatttaatc tttgaatgta tgttactgga 3660
ttagctccct cctcctgtgt gatggtacca tgcatagagt caatcaaatac cttgtgatgt 3720
tttgtatgga ctttgacaat atgtaaataa tgtgtaaagc cagtttttat gattaaggaa 3780
tcaaatttat tgaattttat tattgaaagt tgaaacttaa catgtatgaa caaaaaccaa 3840
taaaagaata tactcttttc attg 3864

<210> 738

<211> 4905

<212> DNA

<213> Homo sapiens

<400> 738

```
ccccgtttcc tgctgcaaaa atagaaaagg accgcacggt gatgccctgt gggactgtgg 60
tcactactgt cactgctgtg aagaccaagc ctcgcgtcga cgtggggagg gcatccccgc 120
tgagctctga ttctccggtg aagactccca tcaagggtgaa ggtgatcgag aaggacatct 180
ctgtccaggc catgcctgc cgcagcgccc ccgtcagcaa aacactctct tcttcagaca 240
cagaattgtt ggtgttgaat ggttcggatc cagtggctga agtggccatt cgacagctca 300
gtgaatcttc aaagctgaaa ctcaagtcgc cacggaagaa aagcactatt atcatatcag 360
ggatctccaa gacctacta tctcaggacc acgacgctgc cctgatgcag ggctacacgg 420
cctctgtgga cagcaccac caggaggacg ccccatccca tccggagagg gcggcagcct 480
ctgccccgcc agaggaagcc gagtcagccc aggcattcct tgcccccaag cccagaggag 540
acgagctaga ctcttgggac ttggagaagg agccacaggc cgcggcatgg agcagccagg 600
tcctgctgga ccccgacggt gatgagctgt cagagagctc catgagtgtc ttggagccgg 660
gcactgccaa aaagcataaa ggaggaattc taaggaaagg tgcaaagctg ttcttccgcc 720
ggcggcatca acagaaagac ccaggcatga gtcagtcaca caatgacctt gtgttctctg 780
agcagccaga gggttcccgg aggaaaggca tcaccctcac caggaccctg aacaagaagc 840
tgctctccag gcacagaaac aagaacacca tgaacggtgc ccccgaggag ccctgcacgt 900
agggcctgag gtcatcacct ccaagccaga agacgtgcac ccatgttaac taccctcacc 960
aggacgcagc cagtgtgtcc gccggatgtc cagatgcccc gcttgtcttg ctgggtttct 1020
tccaaccatc tcgtcattta aagggaaaac aaaatctgag tctccagcca ggaggcttct 1080
cccagagagg acaaaaaagc ccaacttgcc accagatgct aatgagact tgacagctgc 1140
agagcttggg ctgtgctcat agctaagggt tagggttcaa tattagaagg agattaacat 1200
tataagtgaataaatatgct ctaatagatt gtggagggca ggtttgaggg acttagttta 1260
```

cctattctac actaacaagt gttgttttgg gtccatgcct ggaccatgtc aaaaaagga 1320
gggtgcccc tgtgctgtca ctgtgaatgg aaaggatggg tcacctctct tcatctgctg 1380
cttggataa aaaatgcagc tggccctgag tacagggaag tggaacatag gcaggatttt 1440
ggattaatag agaaattttg ataagaatgg agacgctacg acagatgtag gaagtcactt 1500
acctttgata ttagccatag aacttgaaca ctaactatat cctatgcata gtatgcagaa 1560
cacttttcta agtttacttt gagcctactt gcaagtggaa gatatatata ttctcacatg 1620
gtttttacat ttttctctat cgtgttaaaa gctctaataa tgctagtggg gcagttgaca 1680
tccagggttt ttttctctgc ctgtcatact tgctaaacaa gagcacagcg ggcctgtcag 1740
atgaagtcag gagccatacg tgaccgctcg tagagcacag taaccaaaca catacatgga 1800
ttttgccaag tgctgccagt agccaaaaca aagtcttttt agggcaatag aggaaattat 1860
tttgtgtctc aggtgtcagt cttaggaatg gaagtttaat acaaattggg ccaaactcgc 1920
aggacattcc ttctatgagc gcttcagaat ttigtgtgta acagtcctct tggacacagg 1980
ttgggggtgcc cttgtttggg tttgttttgg tggaaaacat cacaacctg gcacaccatt 2040
tgaatatccc taatatcatt ccagtcgctt tcctcatcag ttgcctttct atttcagttc 2100
attcacagat ctcaattctg aatgtgccac ttccagtaga catgctggtc aaagagcagt 2160
catcattggg gtgaagtgtt cttgacagtt taatatgatt cacttttctc caaagacatg 2220
taaaaggctg ttacaaaagc ttggcttctg tcatggagac ggaaatgggc aagcttcctt 2280
ccgtagcctc ttgttaatcc ttaaacatta aatatctcgg gggtaataga gccactgggtg 2340
agtaaaaacc tatataaaaa ccaagattat aggatttttt cttttttagt aaaaacctgt 2400
atcaaaacca aaattatagg atttttttct ttttttagta aaacctatat aaaaaccaa 2460
attataggat ttttctttt ttagtaaaaa cctatatgaa aaccaaatt ataggatttt 2520
tttcttttt agtaaaacct gtataaaaac caaaattata ggattttttt ttcttctttt 2580
ttagagagag agattagaaa acgacattag gaatttcact ttaaaatgcg cattacaaac 2640
ttcttaggtg taccaggaat tatcaagtga ctttaaaatg acttttcaa cctgctttgt 2700
ttttaaaaat tatattccag ttttaatcat tgtaaaaaaa gcacctggag tttcaaaaca 2760
tgtgaatact accaagtttc tgtcccaaaa gtcaggcatc actgctagtc ttttgggaca 2820
gatgggacag atgttcactt taatgtttta cttgaagttt tactgctctt tgccatgtgg 2880
taaaaagagg ctgagacata tttagaatt ccaagaggat attatgtgtc agaatttcag 2940
acactgatga gaagttttta attgttcttt tttatttgat tttggaattc aggtgcactc 3000

tattcaagtg caaggatatac agaagttttt ttttatTTaa aaaatttttt ttttcgagat 3060
ggagttttcac tctgttgccc aggctggagt gcaatggcag cttactgcaa cctccacctc 3120
ctggttcaag cgattctcct gcctcagcct cccaagtagc tgggattaca ggcacgcgcc 3180
accacacctg gctaattcta tttagtagaa atggagtctc accatgttgg tcaggctggt 3240
ctcgaactcc tgacctcagg tgatccaccc accttggcct cccagcgtgc tgggattata 3300
ggcatgagcc accaggccgg cccagggatt ttatattaag ctttcttgct ctcaaaaaaa 3360
aaaaggtttt aactattcca tttccagatg aatcccatga gcgctgctta ctgttgaata 3420
ccaaggtcta gggctctgct tctgttagac acgcacacgt tgtctccatc caatggcctt 3480
ttctgaagtt acagaaaaca ccaacatggg agggagttta tgaagcaaag gcaaaggcaa 3540
cacgtcggct agcttcaggg tagcacctg agaaatgggc tgtattgata ctgtgaatgt 3600
ttgttttcca agctgtttta tacaggtttg ttttttcatg gtgtagggtta tttatgacaa 3660
agtaaagtgt gtgaagggtta aagataaatt aagattatcc accaaatgct aaaaatactg 3720
atgtgtaaat cacctttatc gcctcacctc ttctacaagc ttttgtggct tgagggtttt 3780
tgtttttggc ttttgtctgg atgaaagttt tgcccagttg tgttttaaaa acaattcctc 3840
atgaacacta agattaattg tgtctgtatc tctggaactg ggtgctcatg ttggttttta 3900
tgagcttgca acccttcccc gtttgctttg ttttaaggagg tgcctctgtt ctttgtggag 3960
gagtgaatg gagctttaag tgtgtgtgtg tgttatgtgt gtttgcacac acgcgtgtgt 4020
tattgtagca acaacaaaaa gtagccatct cttgttgca gctgaaaacc tgctgtgaga 4080
gttttgacag agcactttat tttcgtcaag tttcaagtct gagttcaaaa ccagccctga 4140
tcccttatga ccaactgcta ctcgaccagt cgccactcag tggccacctg gtgcccgttt 4200
agatttttgc ttgggtttta ctggccacct ctatagacga gagttgcaaa gttgctttga 4260
gcagagaggg aaagattaat ttacactgct ggccaccgaa ggcaggtgtt tcctgggtag 4320
taatctcacg gctcttgatc tggaaacttc agagtacaaa ttggtggatg gtggaaggca 4380
ggacacgtat ctctgtctga cggaaaacag acctcggggc tggcgtaaac cctgctgcca 4440
ggccctctcc cactgcccc aaaccggcct agacacgaag accaaagcag cctgcacagg 4500
gcaaggcccc cgcggaatcc tgcagagcaa actcaggtta acttgggtcc atgaccgttt 4560
gcattcgaaa cacaatacac tgccctgttc tctcagttag cagctgggca gcagcgcacc 4620
attcatcatt taggcttgtg gtttgttgtt tactctacca atgttatgtc gaaactgcat 4680
tgtaaaaaga gaagaaaatg gcaggttttc caggtccacg gaaaggtttg gcctgacgct 4740

ggagtgcggt gatgaactta cgtgacaatg attgtattcc tcagtagcac tttaaacgcc 4800
gaagacagcc ctgcagcaag cctgcacacg ggcttgggtg ggttcctttg gagaagatgt 4860
ggctggaaca caaacaatct ttgaaagaaa taaatgtgca cacag 4905

<210> 739

<211> 4114

<212> DNA

<213> Homo sapiens

<400> 739

actggaaaagt tcaagagtgt ctttgctggc tctttcttga atatttccaa agccttggaa 60
gttacaagtt ttgggtgtgg gataaggaaa aactgaatga tagagcacag gtaccgctcc 120
cctttcctca tcatgcctct ctgtcgctc tttgttcata gttgaccacg gcatgtttga 180
gaatttgaac acagccctca ctccaaagct ccaggccagc cgctccttcc cccacttgctc 240
caagcccgtg gccccgggt ctgccccctt gggctctggt gagcctgggg ggccaggact 300
ctgggtgggc agcagccagc acctcaagaa cctgggcaaa gccatggggg ccaaagtga 360
tgacttcctg aggagaaagg agccctccag cctgggcagt gtgggtgtga cagagatcaa 420
caagactgca ggagcacagc tggccagtgg gactgacgcg gctccagagg cttggctaga 480
ggatgaaagg tcagtcctgc aagaaacatt tcctcggtg gatcctccac ctcccataac 540
cagaaagcga acccctcggt ccctgaagac caccaggac atgctgattt catcacagcc 600
tgtcctcagc agtctggagt atgggacaga gccatcacct gggcaggccc aggactccgc 660
tcccactgcc cagcctgacg tcccagcaga cgcttcacag ccagaggcca ccatggaaag 720
agaagagaga ggcaaagtgc tgcccaatgg agaggtttcc ctgtcagtac ctgacctaat 780
ccacaaggat agccaggacg aatccaagct aaagatgact gactgcagaa gggcctcctc 840
ccccagcctt atcgagagga atggcttcaa actcagcttg agcccatca gcctggctga 900
gtcctgggag gatggcagcc cccctcctca ggcacggacc tccagcctcg acaatgaggg 960
ccctcaccca gacctgctgt cctttgaata gagcctctgc tctttcctgc tgagctctgc 1020
ccttgtcttc ctgctgcttt ctctccact gcgcacactg gcctggcct caactccgct 1080

gtgccctttg tcttccttgt atgaggcacc agcagagagc cagtcgtcca tcatgggatt 1140
ttgcaggact ggaagtcctt gagtagttct agttaagag tctatccgca gaatggctga 1200
aggacttgat gccgttttga gcctaatttt ctgtaacctc ctctgagtgg gctgcagccc 1260
ttggacatta gagctcttcc actcttgagc ttgtcctgtc ttctcagtga attgcagggc 1320
caccagctca ggacaatgga tcttacagga attctttttg cctgtcccct acatgcgcct 1380
cctccccctg tgttctccct cccacacccc tgtcccttct ctctcctcct tgatgggtcc 1440
gatgcccctg gcctcagcgg gaggaaggct ggatgaggaa tgatgtgttt ggcttgatga 1500
caggccatgg cctagaaagc cacacacctt gaccacagcc cagccatagc tcctcttggt 1560
cccaggacag tgcaggcccc tggttgccat gtttgctctg cccctggggg ggaggccaga 1620
ggagatgctt accaggcctg agaccttgag agttcaccca gggtttgaac gctgccaccc 1680
agggttccca aggtttctcc catctgggtca gatttcgaaa aatgtgggca ttctgcacgg 1740
aaggaaagat caggcttctc ttgctgagtg tgtgaagaca gggagagcca ggccccagca 1800
gatgcggcct agcacactct gatttggttt tgtggggagg gccaggaac ttgggggtgg 1860
tcttggcatt cagagctggg gctaaaaacc cagagcagaa gcaggagaa gggagtgagg 1920
atgggacaga gaagagcgac cactggggat cagaacagct tttcaggggc caccttgcag 1980
cctaaaataa tgccgtttca gggcctgggc ctgctgtgag agccagaatg aagcatgtgc 2040
aagattggaa tgtgagaaga actgtggggg gaaaccagtt ttaattaagt ggaagtgctt 2100
tgtgcttggt ctgaagttgc ctgggcctcc tgcagctctg gacctactg gagcgcccc 2160
gccctgccct tgcctgcctt tcttttatgc tgatgctggg gggctttttc ctgcttcagg 2220
atccatgtaa gggactgacc aggttcatcc agccttaact ggttcctgca acccactttt 2280
aggtctccca ccaggggcct attgtgctgt cttcctctga ccagcagatc ctgtaagggg 2340
gtgaccta aa ttctggggct ctttgcagca agaggagaac gttctttttc ttgaacaagg 2400
tggccggttc cctgggagaa ggctgggaat ggcacgtccg gccagggcag gcggtgcggc 2460
atcctcctcc tgggattcct gtggcctccc ctgttctatt cattgtttgg cttcccaccc 2520
ataagctctg ggatacccag ggcttgcttc ccagctcttc tcctctcaa gcctctgctc 2580
cccttccac caccactgcc atataaaatg gccatgctaa ctctacaca actaggagcc 2640
tcagcaggat tgctaggatg tgggttcctt cctgcatgct tgcttctgca gctgtgtggc 2700
cttgccatgg ccctcccacc actttccctt ctacctgccc ttccattgtc ttccttctcc 2760
cagaaagcca ggtttcacca cgtgctcacc acaaactgtc tcccctccct cgtaggagtc 2820

actgcagtag ggcacctgca ggccctggta gaggtagcag ggcttacgtg tacattcttt 2880
ctcactctaa ggatgtgata tctgacctg atgtcagaga ggaggtctca ggactagcat 2940
tcggggtcct ttgagtgttc ccagaatggg ttgggggtatc acacaaaaca ccagagctga 3000
ggatagggat agagtcccca aacacacatc ctggggagcaa gccacttcat ctgagcttcc 3060
cataccagga gcatggtttg tgctttgatg ggaaacctag caagcccctg cactctgggg 3120
cttctcctct cctggagccc agggcggtc tggcccgatg atatggcagc cataggtaca 3180
ggatttgcag gtgcagcctt tcttaagtac cctgcctcca ctctatagcc cagctgctgc 3240
tggagtccag gacctagac ccaggatgag caaaaggatc ccaccagggt gtccaggacc 3300
attgccaggg tgacccaga gtcttccaga cctgtgtctg atactgaata cagtgccatg 3360
ggacctgct ccaatctaac tgcctacaac ctgcccgtcc ccctgctgca gggatgttgc 3420
tgctacctcg ggaggctctc tgagactggg gtctggctctt agatgctgca catagtacct 3480
ggtgctaggg tctaggggct gccc aaagcc cagcaggaac agctactact catcctgcag 3540
aggccttggc ccagaccagc ttccatcca aagcctcacc tggtttccat gtccatctca 3600
acagtctggc cttcctgtga ctgtagcctg gcagccacac cctcagtaat cccgcacagt 3660
gagtccagct tctctgggag cttggccttc agttagccca gtccatgaga gggcagggtg 3720
atgaggagga gtaaaggacc tatcttctct gtccacataa ggaagttggg accacaaggt 3780
cttttatctc cttgttactc cccaacccca ccataacctc ctactcagca cacagcttta 3840
tcctggtaga ttataaggtg agcttccaga acctggcagg aggctggtgt atccccctgc 3900
acagagggaa gtgtatctga atgttgtgta tgtggctgat atggaagaca tacatgtatg 3960
caatccatca gcgtttaaag aagaagattg gctccagttc ggaggaggag gaggaagatt 4020
acagatctat tctgagtatt ttttagagag ttaatattta tatttttagt aattttctgg 4080
tagaaggaaa ttgcacaata aaatgatttg gttt 4114

<210> 740

<211> 4184

<212> DNA

<213> Homo sapiens

<400> 740

agttgtgttg tgccaatggt ggagaagaaa acttcgggct ggagtgcagt ggcatagtca 60
tagctcactg cagcctcgat ttcctgggat caaaccatcc tcccacctca gcctccggag 120
tggctggaac tgcaagcatg aggccccacg cctggttaat ttttaatttg ttatgtggtg 180
acgggctctc gctatgttgc ccaggttggt ctccaactct tggcctcaaa gcgacctcc 240
tgcgtgggccc ttccaaagtg ctgggattac aggcgtgagc tgccgcgccc ggccccagct 300
attcctcgta aatcccttcc tcagcccccg ggctcctggcg ttgacccttc attcacgttt 360
tattggtgcc tgctccaagc cgggcgctgg ggatgaagag gagaaagacc cctcttatcc 420
aagcattggc tttttctgga agggggggcag aaacgcagac ctaacactgt attttactgt 480
gatttgtgat ttgtgctatg gcagagggaa gcacagcgcc tgggaacagg gagacgtggc 540
atctagccca ggttctggga ggcaggggac tgtgaaagct tgaaggaaaa atgaaaaagc 600
ttgaattgag tcttgaaagt ctagttaggg tttctctcag tgggaagctc acgtgcaaag 660
gcagtgaagc aagaaaaagc aagtcgctta ggaagccaag tccacagttt ggatcttaca 720
gagtaataag aaaggatcga aggctgggga aaggttacat ttgaaaggc attatacaca 780
ctgcccagga gtttgaactc tgtagggaaa cactggagag ccagcaaagg cttttttttt 840
ttagacagag tcttgctctg tcaccaggc tggaatgcag tggttctata taactcactg 900
cagcctcaac ctcccatgct caagtgattc ttccacctca gccacctgag taggtggaac 960
tacagtgagg tgcaggccac catgctgggc tagtttttat attttttggt gagatgggtg 1020
tctcactatg ttgcccaggc tggctctttaa ctctgagct catgtgatcc tcctgcctcg 1080
gccttccaaa atgctaggat tacaagtatg agccactgcg cttggccctt ttagtttttc 1140
tttctttctt tttttttctt tttgagacgg agtctcgctc tgtccccag gctggagtgc 1200
agtggtgcaa tctcggttca ctgcaagctc tgcctcccgg gttcacacca ttctctggcc 1260
tcagcttctg gagtagctgg gactacaggc gcccgccacc acaccagct tatcttttgt 1320
attttttagta gagacagggt ttccacctgt tagccaggat ggtcttgatc tcctgacctc 1380
gtgatccacc cgcctcggcc ccccaaaatg ctagaattac aggcatgagc cactgcgctt 1440
ggccctctca gtttttcaaa ggcategcag tctcccagcc atcagttttt tcatgttggc 1500
ctcaaggctc gaaatacccc gctgtctccc ctagccaggc cattcaccag ttaggcctta 1560
acctagactt acctttctct gggaagtctt cctgactac tccaaggcca ggttgggtgt 1620
ttctgtcctg ggctctgcag cactttatac ttccgtatcc tagcctactc catgctgtac 1680

ttactgtgtt tgttttttaa tcatttgtgt ttgccactgg actgtaagct ttggcatccc 1740
taaaacctag agcactgcct ggcatTTtTga ggggagacag agtagtacag tgatcataat 1800
catatTTTTt tttgtttTgt tggTTTTTggg tttttttttt tttttttttt ttgaaacagg 1860
gtcttgctct gtcaccagg ctggagtTca gtggcacaaa cacagctcac tgcagccttg 1920
agctcctggg ctcaagcaat ccttgTgcct cagcctcctg aatagctggg actacaggTg 1980
tgtccacta cacctggcta atTTTTgtat tttttttTga gaaacatggT tttgccatgt 2040
tgcccaggct ggctcgaac tcccgcTct aaacaatcca cccacctTgg cctcccaaag 2100
tgctgagata acaggcatga gccactgcgc ctggcaaggT catgctTTTT gatgctgggt 2160
agttctttga ctctgacct ggccactTgt tagctatgtg aactttggac acatttctta 2220
atctctgaat gttggTaaat tggggatgat gatactgtcc catacagctg ttgtaagggt 2280
taaTggTtc aagtgtTca aagagctgag cacgtgcctg gctcatagta agtgtccaac 2340
aagtgatagc tactggggct gctgctgtta ttattatgct taacaggTgg ttaatgaata 2400
aagagatata ttatgcaaaa ttatcagaat ctggcaaaca gctgataagg caatgaggaa 2460
agaggTTTTt tgtTTTTgt ttttgagaca gggTctctct ctgttgcca ggctggaatg 2520
caatggcgcg atctcagctc gctgcaacct ccacctccg ggtTcaagcg atcctTgtgc 2580
ctcagcctcc cgcgtagctg ggattacagg catgtgccac cacaccTgc taattttTgt 2640
atttttagta gagacatggT tTcaccagT tggTcaggct ggtctcgaac tctgacctg 2700
aagtgatgag cccacctcag cTcccaaag tGctgggatt gcaggggtga gccactatgt 2760
ccagccgagg aaagaggTtt aaaataactt ctaggtTtct ggtttggatg tctgcataga 2820
cggtTccatt tgcgtagaga gaatctgcag gagaagcaga cttggatggg aatttttttt 2880
tttttgagtt gcagtTcca cagggccagT gggTgatttc tttttcctt ctttcttttt 2940
tttttttttt ttggagacag tcttgctttg tactcaggc tggagtggTg gcgcgatcac 3000
ggcttgctgc aactgcagc ctcaacctcc cgggcccatt tagtcctccc accgcagcct 3060
cccaagtaac tgggactaca ggcatgtTca accacgcctg gcttattttt taattttttg 3120
tagagatggg gtttggctat gctgccagg ctggtTtcta actcctggca tcaagcgatc 3180
ctttggcctc ccaaagtGct gagattacag gcgtgcgcca ccacaccgg cTcaccagg 3240
cgctggctgc atggccagtt ctggagcccg ggagcaggTt ctgtgttgag ggagtTactc 3300
tgggagTcat ttgcttTgtg gtgatcatca gagccctTtTg tttggagtca aaatcccagg 3360
aagagtGcat agactgagca gagaagaggg ccagccacct ccatagaggc agggagagca 3420

gccgagctgg agccggagga ttcctggaca tggagaaggc ctgcagtitt gtcaaggaag 3480
caagcaaagg gtctctttct actcgatgaa gttcgctccc aggaccccgg gcagcggcgg 3540
gtgctggacc gggctgcccc gcagcgtcgc atcaaccggc agctggaggc cctggagaat 3600
gacaacttcc aggatgaccc ccacgcggga ctccctcagc tcggcaagag actgcctcag 3660
tttgatgacg atgcggacac tggaaagaaa aagaagaaaa cccgaggtga tcattttaaa 3720
cttcgcttcc gaaaaaactt tcaggccctg ttggaggagc agaacttgag tgtggccgag 3780
ggccctaact acctgacggc ctgtgcggga ccccatcgc ggccccagcg ccccttctgt 3840
gctgtctgtg gcttcccatc ccctacacc tgtgtcagct gcggtgcccc gtactgcact 3900
gtgcgctgtc tggggacca ccaggagacc aggtgtctga agtggactgt gtgagcctgg 3960
gcattcccag agaggaaggg ccgctgtgca ctgcccggcc ttcagaaaga cagaatttca 4020
tcaccaatg cagggggagc tcttcctgga ccaaggagg agccgctcat tcaccaaca 4080
aaactgtgtc ttatctgcca ggaaagacca gcctcactcc tgggaactgt ctggcaggta 4140
ggctgggccc cccagtgtg ttagaataaa aagcctcgtg ccgg 4184

<210> 741

<211> 5788

<212> DNA

<213> Homo sapiens

<400> 741

aggtggcagc gcttgcagtc gggctacgga ggccgggttg ccagattacg ggaaagccat 60
ttaagaagtt cctggaataa tattagtcag agtaatatag gatctgcagg aagtgtctca 120
agatagttgg aaaagaagaa tttctagact ctcatcaag atcttcattt atacagctgt 180
taaatccaag gctactttgg tgaaagcatg aataaaaaata catctactgt agtatcacc 240
agtctacttg aaaaggatcc tgcctttcag atgattacaa ttgccaagga aacaggcctt 300
ggcctgaagg tactaggagg aattaaccgg aatgaaggcc cattggtata tattcaggaa 360
attattcctg gaggagactg ttataaggat ggctcgtttga agccaggaga tcaacttgct 420
tcagtcaaca aggaatctat gattggtgta tcatttgaag aagcaaaaag cataattacc 480

agagccaagt tgaggttaga atctgcttgg gagatagcat tcataagaca aaaatccgac 540
aacattcagc cagaaaatct gtcattgtaca tcacttatag aagcttcagg agaatatgga 600
cctcaagcct caacattaag tcttttttct tctcctcctg aaataactaat cccaaagacc 660
tcatccactc ccaaaacaaa taatgacatt ttatcttctt gtgagataaa aactggatac 720
aacaaaacag tacagattcc aattacttca gaaaacagta ctgtgggttt gtctaataca 780
gatgttgctt ctgcctggac tgaaaattat gggctacaag aaaagatctc cctaaatccc 840
tctgttcgct ttaaggcaga gaaactggaa atggctctaa attatcttgg tattcagccc 900
acaaaggaac aacaccaagc cctgagacag caagtacaag cagactcaaa agggacagtg 960
tcttttggag attttgtcca ggttgccaga aacttgtttt gcttgagtt ggatgaagta 1020
aatgttgggtg cacatgaaat ttccaatata ttagattcac agcttcttcc ttgtgattct 1080
tcagaagcag atgaaatgga aaggctcaag tgtgaaagag atgatgcctt gaaagaagta 1140
aatacactta aggaaaaatt attggaatca gataagcaaa ggaaacaatt gacagaagag 1200
ctccagaatg tgaaacaaga agccaaagct gtagttgaag aaacaagagc cctgcgtagt 1260
cggattcatc ttgctgaagc tgctcagaga caggcacatg gaatggaaat ggactatgaa 1320
gaagtgatcc gtctgttaga ggccaagatt acagagctaa aggctcagct tgctgattat 1380
tctgaccaaa ataaagaaag tgttcaggat ttaaaaaaga gaatcatggt actcgactgc 1440
caattacgaa aatcagaaat ggctcgaaaa acttttgagg catccactga aaagcttctt 1500
cattttgtag aggctattca agaagtattt tctgataatt ctactccttt atcaaattta 1560
agtgaaagaa gagctgtgtt agcttctcag acttccctca caccactggg aaggaatgga 1620
cgtagcatcc cagcaacgct ggcgcttgaa tctaaggaac ttgttaaadc tgttcgtgcc 1680
ttacttgata tggattgttt accttattggg tgggaggaag cttacacagc agatggaatc 1740
aagtacttca tcaatcatgt aacacagact acatcctgga tccatcccgt gatgagtgtc 1800
ctgaatctat ctgcctcaga ggagaatgaa gaggattgct ctagagaact cccaaccag 1860
aaaagttgat ggttttcctt aggaagtgga gctacatgga tgatgtgagc agagacgcat 1920
aacatccaat tctgagatga aacagtctaa aataggagta aagcatgcac tacttgttga 1980
agtgtgaaat ggagactctg gactttgggt atttttgtaa aacttttgat atttctgtat 2040
acatttaaaa aatcaattgc cactacagta gttccttaag aataatctag ttatatTTTT 2100
tgaaatcaca tataattaga ctttataata tatatacttt ttcatatata attagatctt 2160
tctttgtaat ttcatatgta gttcttcata gggcttcaga tacaatgggt tttataattg 2220

acgtattgaa aaagtatatg aacataatga aacacctcat ttatttgata attcactaat 2280
gttttatatt catatattag gaaagtgaac ttagcaagct ttttggaatt taaggatcac 2340
atttagacat ctcatgggct gatgaataca gctggatatct ttgtggagct ttctaattta 2400
caaaatgctt ttagacccc attgtcttta aaccatacaa catgcccgtg aagctgatct 2460
ggtgggtatg tttattcttg gttttcagta gggaaatagc agttcagaga gaggaagctc 2520
tctgtcccag caccgagact cactcctaag tcttctgatt ccatgagcag tcccccttcc 2580
cccataccct gctgtctcca cggagggagg tcacagccca tcacgcagga cactgtgatt 2640
gtgttgatgc agctggctcc acagctgtgc attccacaga gattcagaag gcacctcttc 2700
ggtcaaacat ggccccctta taaccccact attcttctcc tataaacct tcccccttct 2760
ctgcacccaa gccttcgcca agtaggcgca ctctttgtga tattgtttca gcagacttct 2820
ttcagcagct cgtgtttttc taaagtgaag ggcattggtt gtcttgctta ggttgccctt 2880
cccagaggga tggtttgagg ggagctgatg agaagagagg tatctgttaa aacattactg 2940
ctctactcga aacaagatgg aagcctaaag cccaagtcga gcagctcca gactgctgt 3000
gcagacctag aggtccttag aacatagtct aagaaccatt cattgtagcc attttatagt 3060
tgagtaaact gagatcttaa gtctcctagt ctactgaatt tcatatgggtg tataatacag 3120
atztatatgg taaagatata catatacatt gtgtcaact atacattctt gaatccattt 3180
aggatttgtg atttatgtct tgagtaataa tataaagtca actccagact gataggtagt 3240
cattagccat gagaaatgtt tcaggatggc tagggaagac ttgtgttttg cctgacagcc 3300
atttgaatgt taggaagctt cggggagaca agttttgaga gaagcccag agggagctat 3360
ttccttgcac cccccagagg tgaatgaggt attctataag ttagtgtcta taattgtgaa 3420
agtacaaact tcttgttttt gtcaaattaa tggatatgaaa tttctctccc cctgcttgaa 3480
gagttttcta attcgtttct agtgagcaaa acaaagaagg tgcttgagtc actgaaatca 3540
aagtactcag gcacacagcc cactgacaag agacacctca tccattaact gctgttttgt 3600
accacttgcc gccctgtttc tgtcaaatac ctagtgaaaa aggcctaaac aattgtaatg 3660
atattattta ttgggcattt tgtgccatac atggtgatga gcagtttgca tatatttatt 3720
tatgatcttc ttaaaacat tccatgaaat aagaactgta attatcccca attctaaaag 3780
aaaaaactta gttttagaga gttagtaatc ttgcctaag ggtcacaag cacctatgtg 3840
tagaagctag ggttcaaggc agatctgtga ttccagaagc tgttctctaa accactatgg 3900
agaactgctt agattcattg tctatgggta catthttataa aaaggcagat tctagttcag 3960

tgtcataagg aactttctag taattagagc tgataagaaa agaattcctc aggagaaaaat 4020
ggaaacacta tcccagcaat ctgaattcct tacttgggga atgttgctga ggaggttcag 4080
tgtgtgaatg gactgaacca gttggccact ctctcagatt ccctcttcat aaagcttccg 4140
tgacttctaa accatcaggt cggtgccata agagatgctc aaaaaagcat ggtcagggtc 4200
tagcaagaat ccttttccag tgcaaatacg accctcatat tatgttttgg cgagtagcca 4260
gtctttcttt aacatcaatc aaccgtagca atgtgggtcat cacgaagtct tcattgactc 4320
actggcttgg attttagggt tagaaaatct gaatgttctt atgtccttcc gtctcacttt 4380
actagagtgc ccaagttgac tcattccttac tctctcattc cctcaaaata tttattgagc 4440
accaacaatg tcacaagcac tgtgctaaac actgtggtga agtagaaciaa ttgctaatac 4500
tttcctgggt tccacttact cttgatttaa aaaaaaaaaa acaacaaaag agtttgtgtg 4560
tggccaggac taaacagctg cttcttaatt tttgaatttt aaaactaatc tattttattt 4620
aaaaaaaaatc aagtactttg gaagtgaata aagtaagaga tagcctgtct cactttccag 4680
aggtagcagt cactaatact gtggtgagtg attttactca aaggaaatca cactattaag 4740
cagcttgggt ttgacatgtt atgttgttgt catcttttca tgtcaataca tagattaatc 4800
ttttatttca aatgtctaca taaaatatca ctaccacat aacctataat ttgtgtggcc 4860
agcaatttat tgaacactaa aatgttttaa gttttcttat tgctaacaat gtcacagtga 4920
acatttatat attcattaaa tccttttctt catgtatctt tgcactcttg tgctagtatg 4980
tctatagtgt gaatacatc ataaatttct tgatcaaagc taggtcaaag ttacattcat 5040
tttaattttg gtacatatcc ataaattctc cataaaagta ggaccaactt acattaccac 5100
caatagtgtg tgtgagcctt atttttatgt atgataggac tttttttagt ccaaagtgtc 5160
ctatagattt tctgggtttt tttttttttt ttgtccttgg aagaataacc ttccttcac 5220
caagtccaag aacctgagat ttttaatcat taggttttag atttccttta gcagcagaga 5280
ctgacttgct gtatagaggg aagtcaagta gtgactaact cactatatgt caaacacatc 5340
attactcttc tcttttctta ctttcatgt aatgggttgcg aggaccaact ttcaaagag 5400
ctaacttggg tgagacgttc actaaagtac caagcacaat acaaatgcat cttcgagttc 5460
tttgggcctc actttcccta tctgaataat aaggatagta atcccttggc ttttctcaaa 5520
ccagttcaac tcagcaaaca cttcctgagc acctgctaca tgccaggcaa aatgtgaaat 5580
ttgcatgcta tgaggctaaa tgggtactgat tctcaaaaca aggagctcat agtctaaaac 5640
catttttctt tctttttttt cccctaaac aacctcttaa aggggtaaga agttaggggg 5700

ttgtttatta agaaccctg aagagcaacc ctttaccact ctcttaaatt tgaaaaattc 5760
caaaataata ttaacacctc ttgactag 5788

<210> 742

<211> 3455

<212> DNA

<213> Homo sapiens

<400> 742

tatagcatgt ccctttcttg tgaatttcac tgtaagaatt tacatgttaa aggctctgaa 60
caggaatgca gttaaggaaa ctcacttgat tatgcttagt ggactacgtt tctcaaactc 120
atttgcctgc tgtggagccc tgttttatat aacctctaag agcctgagaa atatactttg 180
ggcaacactg atctggaagg tctggtatct gccagatctg tccctgtaga ctcagactgt 240
tttctgctgt aagagcagca gctcttcata tgtttgcctc tcttcttttt tttttgagat 300
ggagtccagg ctgtcatcca ggctggagta cagtgcacag attttggctc actgcaacct 360
ccacctccag ggttcaagca gttctccggc ctccgctcc caagtagctg ggattataga 420
cacgtgccac catgcccagc taatttttgt atttttagtg gagatgggat ttcaccatgt 480
tggccaggct ggtctcgaac tctgacctc aagtgatccg cccacctcgg cctcccaaac 540
tgctgggatt acaggcatga gccactacac ccagcctctg tttgcctctc ttctaacca 600
gttttgggtc ccaggaaaga ctttccctga ggtccgtctt cctagttagg cccacgtgg 660
actgtcattg aggaggccat aaggatcaga tcagactgat gttggggctg aaagtgaaga 720
tttaacttgg gggaggaagg tgtggaaaga ttctccagat gttctaaacc ctttgcctt 780
tcccacacag gatggtttcc ccattcggat aaaagcagtc catgtggtga atgaacctcg 840
aatatttaaa ggcatttttg ccatcataaa accatttcta aaggagaaaa tagcaaacag 900
attcttctc catgggtctg acttgagctc tctccacaca aaccttccaa gaagcatcct 960
cccaaggag tatgggggca cggctgggga gctggacact gccacctgga acgcggtact 1020
gctggcttca gaagacgatt ttgtgaaaga gttctgccaa cctgttcttg cctgtgacag 1080
catcctgggc cagacgctgc tgcccaggga cctgacctca gatgcacagt gtgacgactc 1140

cttgcgagct gtgaagtcac agctgtactc ctgctactag cccgtccccc agggtcacca 1200
tctttaattc ttttccttct tttctttgga gaggcacaag gagaatttaa ggggtccatgg 1260
attcagtctt gctccttgta attaaactgc aggatggagg aacagcctga gatatgagca 1320
tgagcccatt ttggggtaag ccttttggtta ctttaattac tccatggaag acatggaaaa 1380
tgtccccact gattcttaaa catttggaat cccagtctgc aactattaat ctggaggcta 1440
tatctatttt gttttgcttt ttggttgggg ggtggtgatc tggttcttac acatcttgga 1500
agcaagaaca atcaggacca aagtcacttt gatccactt ttccaggaga aaaaccacct 1560
gtttggccag tgagaactac ttgtatgaaa taatttggcc aaaccttcag tgtgacaaaa 1620
tgtgagactg ggagtttgtg tttttcacag gaaccttaag tatagacctc tgctgctcat 1680
caggaaactt actggagatg aaggccccag ctgttgtcac cgggtttgga aagcacctta 1740
actgaatcat gtaagcatca ggacataagc agcactttgt ggtcaaagt ggaagccgga 1800
gacttcaaag cacctctggg acccactggg tgaagtttgc aatagaaact taagttttcc 1860
caaatccata aagccttagc cctggttctc aatagaatca gggacctagc aggaaatgat 1920
tttactcaac ctaaaatgct ggatcccagg cccgtgtagc tataagaatt ctggcctgga 1980
tcccagggtg acaactatgg acaagatatg ggctctact ttctcctcta taaaatgagg 2040
ctggatgaaa tgtcagctag ggccattttg gctgctgagg ctctgggatt tggtttagtt 2100
actgaatggt agattttctg cctagaaaga taactatcta gatacaagtg gttggatcct 2160
gtttttgttt gtggtacatg tgtctttcca agagagatgt gtcaccaatt agccctgcct 2220
ttaaagaaac tattatgtgt attcctggga ctactgaca ccaattttct ttttatagt 2280
atggttcaat ttgaaaaga tggtttttgt gaggccagggt taaggtgacc aggatcttgt 2340
atgatgaatt ccttccatcc ctgagactct ggtactatat tgtaaacctg gctacagtag 2400
ttaattactt gagattcttt aattttgggc tctgagctgg gcgtggtggt tcatgcctgt 2460
aatcccagca ctttgggagg ccaagggtgt cggtacacaa ggtcaggagt tcgagaccgc 2520
cctggccaag atggtgaaac cccatctcta ctaaaaatac aaaaattagc tgggcgtggt 2580
ggcgggctcc tgtagtccca gctactcggg aggctgaggc agaagaatca cgtgaaccca 2640
ggaggcagaa gtggcagtga gccaaagatcg caccactgca ctccagcctg ggcgacagag 2700
caagactctg cctcaaaaaa aaaaaaaaaa aaaaaaaaaa tttttttttt ttggtctctg 2760
gaaatgaaca caagggcagg ttattcctgg gtcacttctg ggccccctg ccctcccagc 2820
cccacttgag tttctctctc tgggtgtgggt gaaccagcca gcctgaatgt tctgcatttc 2880

agcacttttag aacctccctg tgaagatttt agccttagcc caaacatcaa attagacggt 2940
tcacatgatg gtttttgacc tatttccttt ctaatgtatt ccacatgatc atgggtgttaa 3000
atagtgaaaa gtactgtgtt gtgtgtgcac cttctccgtg catttattag actaaccagt 3060
caagcagaca gctcagttag ggagaaaaca atactctgaa atttgaaggc caatctgttg 3120
ttactaagct gtttatctct attgcctttt taaatgtctg gataagttgt tgggtggaaat 3180
taagttactt aacctcatta ataccaattc tagagaaagt tcttttcacc atggatagta 3240
accctggatc ctctacggta ctggctgagc tggaagtgcc aaaaagcact cctggctgct 3300
tctggttcca tctgatgatg atgtgacaca cactgctgaa aaggccaag cagggcaagt 3360
gggatggctg aaggagggaa ggaggggggtt cagaaccac tggcctggat gggagaactg 3420
ggtggaggct tccccaagag ggaagacaga taaac 3455

<210> 743

<211> 3890

<212> DNA

<213> Homo sapiens

<400> 743

atatatatac taccacatgg tccaaaattt gaaggaggcc tcaatacaat gtcccaatca 60
acttaaaaca gtgagaagtg ctgccaaatt gcttaacttt gggatgttct cagttggatt 120
ctaagcaacc atttgggttt gaagcatatt tgtacactct acatgcaact gttattcatg 180
tatcatgatg tgaaaatatt ccataaaata tcaagaataa tgtttttgaa aataagaatg 240
aaatcagcat gataccaata tgtgatgatg gtaacattta tggaaatctt aaattcatct 300
ctagacaact gtcaaactat aatatcattt tagctggaca gtgatgaaaa catgaatatc 360
tgtttattgc acaggataaa tgaggtattg attgttttct taatgtctat aatcagtcac 420
acatcctcag tcctctgtta tgaccagact tcttttttga cacccttgat ttcggattta 480
gatttgaagg ttgggctgag acatgagctt tttctcaaat aatgagcag tcctaatttt 540
tttgccagaa attgtgattt aaatttccaa gatggactaa ctataaaacg tttaaatgcg 600
gaaccttgcg tttcactcta gagactgtct ttatttagta tgctttcagc tacatgtagc 660

ggaaaatgca attcacactg attccggtaa caaggaaagt tathtagctc aagttccaag 720
gacttcccat tcccgacat acgttagaat ggcctgggag aatgttttaa tcaatactgg 780
tcacagaaga actgagtcag aatctttcca gtggagcatg ggcattggta attattaaaa 840
actttctgga gtattcaa atgtagtcaa ggtttagaac cactaattta gaagctcacc 900
tgtgtcttca aggatgcagt ttcttgccat ctctctgccc tgacctgccc tgcccttccc 960
agaacgaact ctccccagg ttgaaagcaa gacagttgta atagttctag acaccatatt 1020
cattcaccaa catcgagagg agaatgacca tgtcttctag ggcatttttt aaaggtaggt 1080
ttgccagata aaacacaaaa tgcccagtta catttgaatt tcagataaat atgagtaaa 1140
tttttttagta taagtatttt atattacatg ggacatat tttaactaaaaa ctttatttga 1200
tgtttatatg aaattcaa ttaatcctat gttctatgtt tttatttcta aatatggcaa 1260
ccctattctta aaggcgtttt caacagctac tcaccaagac ttcctttatg tcttattggc 1320
caaaattcct agattaccct taaatccatc aggcccagcc actgcccaca actgtagatt 1380
gggttggagg gggctcatgg ctgcagggcc ctcttgggaa ggagacacag ggaacaccag 1440
ccctagcccc tataaagaac aatagtacag gtaacacttc tgtttcataa aactgagtg 1500
ataccatgat gtctagacta aaacttttct gcaattacct ttctggaaaa aaatataaat 1560
ttgattttca tgaatgtatt tatcttcatt gaacagtcgt cttcagaact gttctttttt 1620
tcttgagacg gggactcatg ctgtcaccca ggctggagtg cagtggcaca atctcggtc 1680
cctgcagcct ccacctcctg ggctcaagca atccaacccc ttctgcctcc caagtagctg 1740
ggactgcagg cgcgggccac catgtccagc taatttttgt attttttgta gacatggggt 1800
ttcaccatgt tgcccaggct ggtcttgaac tcctgagctc aagtgcctg cctgcctcaa 1860
ccacccaaaa tgctggaatt acagtcatga gctactgcac cccatccagc ggaattgtca 1920
gttctgaggt gacaaatgtt ccccaaaatc actatgctat gcaaagacat gcattaaaaa 1980
ccacaggag tctaggcaca gtaactcatg cctgtaatcc cagtgccttg agaggctgag 2040
gtgggaggat tgcttgaggc caggagttca agaccggctg ggacaacatg gcaagacccc 2100
atttctacca aaaaaatta gctgggcttg gtggcacgcg cctgtgggtc tagctatttg 2160
ggaggttgag gtgaaaagat cgcttaaacc taggagttca gggctgcgat gagccatgat 2220
cacaccactg tactccagcc tgggtaacag cgagactttg tctctaaaat agtaataaaa 2280
ataataagat aaaaaccca gggcttgtgg ggaaaattgg atcgaggtac aacactaaaa 2340
aaaaaggtca tcagtgccac atgaaacaaa gtaggaacct aataaaagtg gtagagtgg 2400

tttacacggtt aagtgattaa gaaataaata gtgcaataaa tatgatactt taccttgaaa 2460
aatacctgaa gctcagttgc ggaagtggac attggaaggg ttgcagcttg tgagtcactg 2520
tgaagtgggtg gaggagagtt atctggatgg aatctgatgg atttggttat ggaagtagcc 2580
cataacacac acggaatgga ggtagctggc agatatctgt gttgcatgca tgtaggcatt 2640
ttgtgtattc ctgcattcct acgtgtagct gcgttcatct atgtggagtt ttctgcattc 2700
accattatt tcttgaggat gatgttgtgt gtaagcaaata gtgaacttcg ggttatgctc 2760
aattattccc taatacattg atctcattga aacaagttca cattttcaaa acaagcatta 2820
taacggaact gactctatac agttcatgac atgcagcttc tggatttggc gagttggagg 2880
aatgagaata tagaaaggtt acactctaca taattttctt gttctcaagt aacaaaccca 2940
tgtaattag aaattttaga gttaatccat tttattaatg gtcaacatat acccaaagta 3000
tttcacgaca ccaacgtgtg catcgtgtat gtctgactca tatgctttga ctccctcatca 3060
gaattctgca ggagcccttc tccctaggat aaatccctca attttaaggt atgccctgta 3120
gggcccttta cagtctcacc ctgttcagcc ttatcattag tcctccctct tactcctccc 3180
cagcccctca ggaatgcata gctgtttcac ttcccttaaa ccaagcatgc tttctcatac 3240
ttctgtgttg tttcccttca ctgtctcttc tgaccagagt gattgatgta gccacaaaat 3300
agagtcctt ccagtctcag cccaagcacc ttgtgtccca tggagccttc tctgctagga 3360
gctttcagca cttgtaataa gtagctgggg ccctagttaa gctgcagatt tcagagcccc 3420
tccccaaacc taaagcagca gcatcttgag atggaggggtg tcctacgtaa tctgcaaata 3480
tttcccgttt tgaatgtcag agaactactt gtgtttactt ataaggctct tgcaggcgct 3540
tgactactgta tcttctgtgc cagatattgt gtctggcact cagtaaactt ttaggaataa 3600
atgaatgctg ttgagggttt tgtgtgttgt gcaagtattg agatgtctta ggctttgctc 3660
tggcgtcctc tagagcctga aaagttgctt catttctcag cagcatttac caaccactta 3720
tttaaaaagc taataggaat tgttggtatt tagtgagaga tggggataa ctttaaggat 3780
gaactaacia aagtatgata ggcatatgaa taaaccaggc aatttagaga attatttctc 3840
tctcaccttt ttttctttcc agaagtctca gaagtggtaa tgtttatgtt 3890

<210> 744

<211> 3493

<212> DNA

<213> Homo sapiens

<400> 744

```
caagaaaagt agatgccagt ctcacaatag acacagcaaa attgtttctg tcttgccctt 60
tgccatgggg agtggataaa gatttagatt atctttgcat taagcacttc aatattttaa 120
agcttcaggg tcctatttct ttgggaattt ctttgaatga agataatttc tctactgatgt 180
tgccagggtg ggatttatgc aatagtggaa tgataaaaga ctattcagga gtaaatttat 240
tttccaggaa agttttggac ttgtcagata aatacacagc cactcttcca aatcagggtg 300
gaattccaag aggattggaa aataattgtg attctttgcg agagtcagat actatagttt 360
atttgttgag cagactattt ttagttaata aattagttaa catgccttta gaattggcat 420
gtagagttgg cagttctttc agaatggaaa gtatacataa taagatgaga ggtgctggga 480
atgacatttt aaatatgtca agcttctaca gttgcttacg aaatggtaag aatgaatccc 540
atgtacctga ggctgacctt tcacttttga agctaatttc ctgttgaga gaccagtctg 600
tgcaggtaac tgaagcaata caagctgttc tcttggcgga agttcaaca cacaatgaaga 660
gtttgggaaa gatacccgtc aatagtcaac cagtgtccat ggcagagaat ggtaactgtg 720
agatgaagca gatgctgcca aagctggaat ggacagaaga actagagtta cagtgtgtta 780
gaaacacttt gcctctgcaa actccagtca gcccggtaaa gcatgacagc aactcaaact 840
cggcaaactt ccaagacgtg gaggacatgc ctgacagatg tgccttgga gagtctgaga 900
gtccagggtg gccaaaggcat cattcatgga tagcaaaggt ctgcccctgc aaggtgtctt 960
aaatggaatc tcatcagtag gagctgaatt tggacaaatt aagaaatcca aaagatgcca 1020
tttgtttatt actgtataaa agcattgttg ttatttgtca agttattagg ctgtagtgga 1080
tttgctaata ctttagccaa catgtattaa agtgatttta atacatgctg attacaatgc 1140
aatacactat gattgaaaat attcatattc atctaatttt agaaaaatat tgcctagatc 1200
actctctatt cctgtttctt actttttctg ttaatatctc caacagggaa tgccagtcca 1260
cagacacaaa ttaataactg ctttaaatct tctcctatcc ttttagtccc tgaattatat 1320
aataaacaat gttaaaacca atgtagtaca caatacttac ttacaaattt aatactgctt 1380
caaggtatct aatctaaaat tttaaccaact ttgatttgct tggtaggat atttgtttt 1440
agtggatatg ctttaattcg gatcaattac tgcagtaaata cccatcccta agcatgaaat 1500
```

gttgtcaaca aataccagct tccatttagt tatcaattag cccaaataag agatacaaag 1560
tataacagtg accaaccttg tactgttgag ttaatttgaa cttctaataga cattgaggct 1620
aatgtcttta gctcaagggt gatcttggtg gccatataga tgtgaactag ggaaggggaa 1680
tcaacttaca gcatatcaca attgatacctt attaagtata aactcttgta ggtcttttcc 1740
cagaaagaag cttgactagc aggaattcta aaactgaaat atatcaaaca gcataaatag 1800
gaatagacat aaagtgtctt tctatttaaag cctttgggtga tctatttact atgatttata 1860
ttgtacagtt cctcgattta cagaaaaatca tcaaaattat taatctacat atcttatgta 1920
tataaatatt gcctaattcca tagaaaaaag gatataaagt attaaatatg tgatatatag 1980
ctatatctat ctatctatgt atctaattag gaagttcaag tcacttcaat tgaagaaaca 2040
tatctctgag cataggagca gcctcagggt ctatgggtggg atgcagtgga caggagagggg 2100
ggaaattaga aaagagaact atataattga aaaaggggata taaagcatta aatatatgat 2160
atatagctat atctatgtat gtatctaaca gagaagttca agtcacttca attaaagaaa 2220
catttttgag catgggacca gcctcagggt ttatgctggg atgcagtga caggagatgg 2280
ggaaattaga aaagagaact gtgtaattga aatgacgtgg gctgcaccct taaggaactt 2340
ataattaatg atgatctgaa taaacatacc aggataaaga tgtcaaatga gtgtgactcc 2400
cttaaagtag attaaagtgt gcattctttg tttcctaataa tatgatttta ctgcttgaaa 2460
ttacatttga gttgaagttt agaaactaac atagcattaa tatgaataat catggaaaat 2520
tattatcctt tgaaaactga ttgataaata tattccccct ccttttagaaa cagtcaaaaag 2580
ccacttcaaa caagtttcaa aataaaggaa ggtagcaagt taggcgatgg attatatattt 2640
cttgcttggt gtataccagt tgtcaaggac attataagga ctcccaaaaag cattttgaag 2700
gatggcaata tcaaataagt gtatgtcctc tcaaatgagg catttttaat tgttaaaatc 2760
tatttggacg ctcaggttat gatatgttta tgaaaaataa gcttcattat ttttatagct 2820
acatcctatt attccctttt agaaacaaga ataacaataa gttttaatag ttgccatact 2880
tagcatttat cagggtctaata gaaaccaata ttgaatctct gataaatatt ttctgatgtt 2940
actagctatg ggaaattaga actggcacaa ccctgacatt actaagtgga aatgttagga 3000
tttttcggca ttgcatgtta gaatctctaa aatttaaaca ttcctgttaa atgactaagg 3060
tttgctttta tcaatatgaa ttctgaaggc caatatcata ccattaacta tgaaagcttt 3120
taattcctaa aaatagtttt agagatatctc aagcaatgct ctcctaatat ccatacgcaa 3180
gtgtgtttat gacacaaatt cactagtctg tttaaaaatg aattctttat attgactggg 3240

gttccacata tttcagtaat ttctgttatg agaggacttg aaatagcaaa ttgccacaca 3300
gttaactgga tagaccacgt acgtggtgat cataaccact tgggtactaca cccagaaact 3360
caaaattgtc tttctcctga tgagatatgg gtgtcctttt gtacgtctag gcctaggtaa 3420
ccagtggagt gattatatta gcaaatgtgt ttgtatccag agtcttcctg tcattgtaat 3480
aaaaaattta ttt 3493

<210> 745

<211> 3750

<212> DNA

<213> Homo sapiens

<400> 745

gtgctttcta ccaggatctc aaaggaatgg aaaatatact gtgtatttgt gtgcacccac 60
acatatttca gggatggaaa gatctacttg aagcaagatt aataaaacac caagatgaaa 120
tttcaagcca atgtatttct gctttaagcc ttgaagagat caatggcact attcttaaac 180
taaaatctgt gactcaatct tcaaaaaggc ttttgccatc tattggttta tcgactgtcc 240
ttctgaaaaa ggaagaagat atcatgactg ctctggaaat tatctgtgaa aatgaatgtg 300
agggtacact gttagagaag gacaaaaata aattccttga attcaaggca tcaaaagagg 360
aagacttcta tcgaggtggc aaagtgtcat ggtggaactt ctacttctct tctgaaagtt 420
attcttcacc ttttgtcaaa agggataaat atgaaagact tgaagcaatg attcaaaact 480
gtgcagattc ttctaaacca acaagtacca aaattattca tctgtatcat catccaggct 540
gtgggggaac taccttggct atgcacattc tctgggaact aaggaagaaa ttcagatgtg 600
ctgtgctgaa aaacaagaca gtggatTTTT ctgaaattgg agaacaggta accagtttaa 660
tcacctatgg ggcaatgaac cgtcaggaat acgtacctgt actactcctt gttgatgatt 720
ttgaagaaca agataatgtc tatcttctgc agtactctat tcaaacagct atagctaaaa 780
agtacattcg atatgaaaaa cctctggtga ttatcctaaa ttgtatgaga tcacaaaatc 840
ctgaaaaaag tgcaaggacc ccagacagta ttgccgtaat acagcaactc tctcccaaag 900
aacagagagc ttttgagctt aaattgaaag aaatcaaaga acagcataaa aactttgagg 960

atTTTTattc ctttatgatac atgaaaacca atTTtaataa agaatacata gaaaatgtgg 1020
tccggaatat cctgaaaggg cagaatatTT tcaccaagga agcaaagctc ttttcttttc 1080
tggtctttct taattcataat gtgcctgata ccaccatttc actatcacag tgtgaaaaat 1140
tcttaggaat tggaaacaag aaggctttct gggggacaga aaaatttgaa gacaagatgg 1200
gcacctactc tacaattctg ataaaaacag aggtcatcga atgtgggaac tactgtggag 1260
tacgcatcat tcactctttg attgcagagt tctcactgga agaattgaag aaaagctatc 1320
acctgaataa aagtcaaatt atgttgata tgctaactga gaatttgttc ttcgatactg 1380
gtatgggaaa aagtaaattt ttgcaagata tgcacacact cctactcaca agacaccgcg 1440
atgaacatga aggtgaaaca ggaaattgggt tttcccatcatt tattgaagca ttacataaag 1500
atgaaggaaa tgaagcagtt gaagctgtat tgcttgaaag tatccatcgg ttcaacccaa 1560
atgcattcat ttgccaagcg ttggcaagac atttctacat taaaaagaag gactttggca 1620
atgctctaaa ctgggcaaaa caagcaaaaa tcatagaacc tgacaattct tatatctcag 1680
atacactggg tcaagtctac aaaagtaaaa taagatgggt gatagaggaa aacggaggaa 1740
acgggaacat ttcagttgat gatctaattg ctcttttgga tttagcagaa catgcctcaa 1800
gtgcattcaa agaatctcaa cagcaaagtg aagatagaga gtatgaagtg aaggaaagat 1860
tgtatccgaa gtcaaaaagg cggtatgata cttacaatat agctggttat caaggagaga 1920
tagaagttgg gctttacaca atccaaattc tccagctcat tccttttttt gataataaaa 1980
atgagctatc taaaagatat atgggtcaatt ttgtatcagg aagtagtgat attccagggg 2040
atccaaacaa tgaatataaa ttagccctca aaaactatat tccttgttta actaaattga 2100
aatTTtcttt gaaaaagtcc tttgattttt ttgatgaata ctttgcctg ctaaaaccca 2160
ggaacaatat taagcaaaat gaagaggcca aaactcggag aaaggtggct ggatatttta 2220
agaaatatgt agatatattt tgtctcttag aagaatcaca aaacaacaca ggtcttggat 2280
caaagttcag tgagccactt caagtagaga gatgcaggag aaacctagta gctttaaaag 2340
cagacaagtt ttctgggctc ttggaatatac ttatcaaaag tcaagaggat gctataagca 2400
ctatgaaatg tatagtgaac gaatatactt ttctcttaga acaatgcact gtcaaaatcc 2460
agtcaaaaaga aaagctaaat ttcattctgg ccaacattat tctctcctgt atccaaccta 2520
cctccagatt agtaaagcca gttgaaaaac taaaagatca gcttcgagaa gtcttgcaac 2580
caataggact gacttatcag ttttcagaac cgtattttct agcttcctc ttattctggc 2640
cagaaaatca acaactagat caacattctg aacaaatgaa agagtatgct caagcactaa 2700

aaaattcttt caaggggcaa tataaacata tgcattcgtaac aaagcaacca attgcatatt 2760
tctttcttgg aaaaggtaaa agactggaaa gacttggttca caaaggaaaa attgaccagt 2820
gctttaagaa gacaccagat attaatcttct tgtggcagag tggagatgtg tggaaggagg 2880
aaaaagtcca agaacttttg ctctgtttac aaggctgagc tgaaaacaat tgtttatata 2940
tagaatatgg aatcaatgaa aaaatcacia taccatcac tcccgtttt ttaggtcaac 3000
ttagaagtgg cagaagcata gagaagggtg ctttttacct gggattttcc attggaggcc 3060
cacttgctta tgacattgaa attgtttaag agcctgatat tcttctcca agaatttgat 3120
ctcagtaccc atttaatttt tttggactca agatctatgc tttaaaccgg caaggttata 3180
gatacagcct ctagctcttc agatctgtac atgcagtatt taatttctc ttaaacaatgt 3240
tatgagttct acaaagacia tagtgaaaaa ggaaggagtg agatatatga aaagtagcaa 3300
atatgttcct tggtttggtt aacatcattg atgacaaaat aataaggagc tatgactgga 3360
gtcaggagaa gttagtgtaa taagctggct acacagaacc ccactactta ccaggcatgg 3420
attgaagaag attgtctact caaatggcat ttagacatta gaatgtctgg gaaaatattt 3480
ctcaaagaca gcaaaaacct ctcaaactga ggagcaacat ttattcttac taagcagatc 3540
atcaatgtat catgtgcttg gcactcaagg atcttccaaa acagaggacc aaccagtctt 3600
ctgaagggtca tgcccacaga agtcatcaga ccttaccaa gtaggttgga gaattagatt 3660
gccttttcat gcagtgagat tcagtttaagc aaaaatgaaa tttgtctcta tagctaatta 3720
gcttatcaac tcccctcaa acaacaatt 3750

<210> 746

<211> 3266

<212> DNA

<213> Homo sapiens

<400> 746

agatgcgaac caagatggct gaataggaat ggatccagtc tacaactccc agcgtgagag 60
atgcagaaga caggtgattt ctgcatttcc aactgaggta ccgggttcat ctaactaggg 120
agtgccggat agtgggtgca ggacaatgga tgcagcacac tgtgtgtgag ccgaagcagg 180

gcgaggcatc gcctcacccg ggaagcgcaa ggggtcaggg aattcccttt cctagccaaa 240
gaaaggggtg acagacagca cctggaaaat cgggtcactc ccaccctaact actgagcttt 300
tccaatgggg ttaacaaaca gcacaccacg agattatata ccgcacctgg ctcgagggtt 360
cctatgccac ggagacttgc tctgtctag cacagcagtc cgagatcaaa ctgcaagggtg 420
gcagggaggc tgggggaggg gcacccacca ttgtctcaggc ttgagtaggt aaacaaagcg 480
gccaggaagt tcaaactggg tggagcccaa cacagctcaa ggaggcctgc ctgcctctct 540
aggctccacc tctgtaggct ccacctctgg gggcagggca cagacaaaca aaagacagca 600
ataacctctg cagacttaaa tgtccctgtc tgacagcttt gaagagagta gtggtgctcc 660
cagcacgcag cttgagatct gagaacaggc agactgcctc ctcaggtggg tccctgactc 720
ctgagtagcc taactgggag gtgcctccca gtaggggcgg actgacacct cacatggccg 780
ggtactcctc tgagacaaaa cttccagagg aacaatcagg cagcagcatt tgcggtccac 840
caatatccgc tgttctgcag ccactgtctg tgatacccag gaaaacaggg tctggagtgg 900
acctccagca aactccaaca gacctgcagc tgagggtcct gtctgttaaa aggaaaacta 960
acaaacagaa aggacatcca cactaaaaac ccatctgtac atcaccatca tcaaagacca 1020
aaggtagata aaaccacaaa gatgggggaa aaacagagca gaaaaactgg aaactctaaa 1080
aatcagagtg cctctccttc tccaaaggaa cgcagctcct caccagcaac ggaacaaagc 1140
tggacggaga atgactctga ggagttgaga gaggaaggct tcagaagatc gaactactcc 1200
aagctaaagg aggaagtttg aaccaatggc aaagaagtta aaagctttga aaaaaatta 1260
gacaaatgga taactggaat aaccaatgca gagaagtcct taaaggacct gatgttgctg 1320
aaaaccacgg catgagaact atgtgacaaa tgcacaagcc tcagtaacca atgcgatcaa 1380
cgggaagaaa gggatatcagc gatggaagat caaatgaatg aatgaagtg tgaagagaag 1440
tttagagaaa aaagaataaa aagaaatgaa caaagcctcc aagaaatatg ggactatgtg 1500
aagagaccaa atctacgtct aattgctgta cctgaaagtg acggggagaa tggaaccaag 1560
ttggaaaaca ctctgcggga tattatccag gagaacttcc ccccgacaa tctagtaagg 1620
caggccaaca ttcaaattca ggaaatacag agaacaccac aaagataccc ccctagaaga 1680
gcaactccaa gacacataat tgtcagattc accaaagttg aatgaagga aaaaatttta 1740
agggtagcca gagagcaagg tcgggttacc cacaaaggga agcgcatcag acagacagcg 1800
gatctctcgg cagaaactct aaaagccaga agagagtggg ggccaatatt caatattctt 1860
aaagaacaga attttcaagc cagaatttca tatccagcca aactaagctt cataagtga 1920

ggagaaataa aatgctttac aaacaagcaa atgctgagag attttgtcac caccaggcct 1980
 gccgcaaaag agctcctgaa ggaagcacta aatatggaaa ggaacaactg gtaccagcca 2040
 ctgcaaaaac atgccaaatt gtaaagacca tcaaggctag gaagaaactg catcaactaa 2100
 caagcaaaat aaccagctaa catcataatg atgggatcaa attcacacat aacagtacta 2160
 accttaaatg taaatgggct aaatgctcca attaaaagac acagactggg aaattggata 2220
 aagagtcaag acccaccagt gtgctgtata caggaaaccc atctcacgtg cagagacacg 2280
 cataggctca aaataaaggg atggaggaag atctaccaag catatggaaa acaaaaaaag 2340
 ccaggggttg caatcccagt ctcgataaa acagacttta aaccaacaaa gatcaaaaga 2400
 gacaaagaag gccattacat catggttaaag ggatcaattc aacaagaaga ctaactatc 2460
 ctaaataat atgcaccaa tacaggagca cccagattca taaagcaagt ccttagtgac 2520
 ctacaaagag acttagactc ccacacaata ataaaggag actttaacac cccactgtca 2580
 acattagaca tatcaatgag agagaaagtt aacaaggata tccaggaatt gaactcagct 2640
 ctgcaccaag tggacctaat agacatctac agaactctcc accccaaatc aacagattac 2700
 acattcttat cagcaccaca ccacacctat tccaaaattg accacatagt ttgaagtaaa 2760
 gcactcctca gcaaatgtaa aagaacagaa attataacaa actgtctctc agaacacagt 2820
 gtaatcaaac tagagctcag gattaagaaa ctccctcaaa atcgctcaac tacatggaaa 2880
 ctgaacaacc tgctcctgaa tgactactgg gtacataatg aatgaaggc ataaataaag 2940
 attttctttg ataccaatga gaacaaagac acaaaatacc agaatctctg ggacacattc 3000
 aaagcagtgt gtagaggga atttatagca ctaaagcca acaagagaaa gcaggaaaga 3060
 tccaaaattg acaccctaac atcacaatta aaagaactag agaagcaaga gcaaacacat 3120
 tcaaaagcta gcagaaggca agaaataact aagatcagat aagaactgaa ggaaatagag 3180
 acacaaaaaa cttttcaaaa aatcaatgaa tccaggagct gttattttga aaagatcaac 3240
 aaaattgata gaccgctagc aagact 3266

<210> 747

<211> 3139

<212> DNA

<213> Homo sapiens

<400> 747

ctaaaggttt gtcactctgtt gatcctaata tataattata aatttatata ttctctgtga	60
atataatgca tgtgtgttac aagattatta gcaatttgag aatttcccgt gcatactgga	120
gatgagcaaa tggaataagt gctcatgtgt agcaacagga ttctctatct tatttcaata	180
cttaatatgt taccaaacca agtaagagga gcatcatgag aaaatgtact aaaggacagt	240
cattacctat atttacacct agaaaagaaa actatattat tgataaactg ataatctat	300
tttatgtatt tatttattat ttgctctgt catccaggct ggagtgtact ggtgcgattt	360
ccactcattg caacctcctg ctcccagggt caagcaattc tacctcagcc tccctagtaa	420
ctgggactac aggctgtcac caccacgccc agctaatttt tgtatttata gtagagacgg	480
ggtttcacca tgttggccag cctggctctca aactcctgac ctcagggtgat atgcccacct	540
cagcctctca aatgctagga ttacagggtat gagccaccgc gccaggtctg ataatctat	600
attaaaaaga ataatataa ccattgcac ttcaacagaa attggaatat ggcatgtaga	660
tttcaaaata aaatgaattc tctggcattg aattactgta ctcattgtga agaatgtca	720
gaacttcatt ggatgttatt atattacagt tgtttgtttg agttgtagtt tgggcagagt	780
aaaggagcca acatgtctta ggatttagaa cttgtgcaca ttgcttacag ttgaaagaag	840
aatgcatgct aaattccagc ctcttttggt tgtggttggg acgtaaagtt ttaccacatc	900
cttcattgtc ttagcctact caggctgcc taacaaaata ccagagactg gatggcttaa	960
acaacagaat cttttttcc atatctaaga ggcttggaa acgaaattcat ttctcacag	1020
ttttggagcc tggaagtta agatcaagggt gccaacatag ttatggtga gaatctgttc	1080
ctggctaaca gatggctgcc atctcactgt gtgtttgtat ggtgtttcct tggcgcctgc	1140
gtggagagag agctctaagt gtctcatctt ctgtaaggac accagcccca atgggattag	1200
ggccctatcc tgtgatcttt agttttatgt accccctaaa ggctctatgt ccaaatgcag	1260
tcacactggg gtttaggggt ttaataaatg aattttgggg gacacagttt agtcataac	1320
attctgtcct tgacctgcca aaatgtatgt cttctccca tacaagataa atttattcca	1380
tccagccgg gcatggtggc tcacacctgt aatcccagca ctttgggaag ccaaggcagg	1440
tggatcagaa ggtcaagaga tcgagaccat tctggctaac acggtgaaac cccatctcta	1500
ctaaaataaa aaaaaatta gccaggcgtg gtggcgggcg cctgtagtcc cagctactct	1560
ggaggctgag acatgagaat ggcataaacc cgggaggcag agcttgcagc gagccaagat	1620

ggtgccactg cactccagcc tgggcgacag agctagactc cgtctcaaaa aaaaaaaaaa 1680
 aattattcca tcccaacagc cccctgaaag tcttaactca ttctagcatc aattctaaag 1740
 ttcaaagtgt catctaaaaa atcatctaaa tcaggttacg ggtgaggctc aatgtgtgat 1800
 tcatccagag acaaaattcc tttccagctt tgaacgtgtg aaaccagaaa tgttacatgc 1860
 ttctaaggta caatggtgaa acaggcataa tagacattcc cattagaaaa tggagaaaga 1920
 ggaaagaagg aaggtgtaat gtgtcctaata caagtccaaa acctggcaag gcaaattctg 1980
 ttaggtctta agaaaaaccc tctttggctt gatgccctga tttccaggcc cagtgggtgtc 2040
 tcagtgtcac ctctggctct gtagttggcc tactccatct gccctgcctg aagtctcggt 2100
 ctttcagttt ggtggggctc caccaggca gccatctgtg agagactccc acacagttct 2160
 gcagggcatc tttgaaacag gtagagtcag ccttgactac atgttccac cccacccta 2220
 tcccatctgt actctctgag tctgacatca aagtggcagc cctggcggct cctgcctgta 2280
 atcccagcac tttgggaggc caatgagaat ggatcactgg aggtcaggag ttccaaacta 2340
 gcctggccaa catagtgaac ccccatctct actaaaaata caaaaattag ctgggcaagt 2400
 ggtggcagga gcgctactcg ggagggtaca gatttagagc ctgtaatccc agctacttgg 2460
 gagtctaagg caagagaatc ccttgaacct gggagggtgga gattgcaatg agctgagatc 2520
 acaccattgc cctacagcct ggggtgacagt gagactgcct caagaaaaaa caaaagagtc 2580
 agccctagtg atcttgtaag ttgcctttgg tgggtcagtc tttccttttc ttaaagaata 2640
 gtacacattg acagccaggt agctctatga tcctgttcta tagaattcaa aaagtcgaca 2700
 accttccttt gttcctttct gttttctctg cctacgttag tttaaattgg cagtgtctct 2760
 gctggaataa tcccatctct cttcctggct tctgctgaga tggctgatta aatccttggg 2820
 tcacacccat tatctcttta tcaaatgggt gttcaggcta ggctcagtgt ttcacgcctg 2880
 taatcccaac actttgggag actgaggagg gcagatcact tgagctcagg agttagagac 2940
 cagcctaggc aacatgtcaa aaccccatct ctataaacia caacaaaaaa ttagccgggg 3000
 tgtggtggtg catacatgta gtcccagcta cttaggaggc tgaggtggga ggattgcttg 3060
 agcctgaagg caaaggttgc actgaactga gattgtgcca ctgcactcca gcctggatga 3120
 catagccaga ccctgtctc 3139

<211> 3496

<212> DNA

<213> Homo sapiens

<400> 748

```
aagagcggct ggccaggcac ggcctccgcc tctcagtacg cggagcgccg gcggtcacct    60
ggggctcgcg gagcggccag atcgcggcgg agtcggcgcg cttccccgag ggaaggtggg    120
agaggggacc cggacgcgag gtgccccgaa gccctctcga gcgtaaccgt cccgcgcctc    180
tctgaggcgg aggatgcggg agcgcattctg ggcgcccgcg ctgctgctgc tgctgccgct    240
gctactgccg ccgccactgt ggggcggccc cccggacagc ccacgccggg agctggagct    300
ggagcccggg cctctgcagc ccttcgacct gctctacgcc agcggcgcgg ccgcctacta    360
cagcggagac tacgagcgag cggtgcgca cttggaagcg gcgctgcgca gccaccggcg    420
cctgcgggaa atccgcagc gctgtgcccc cactgcgcg gcgcgccacc cgtccccgcc    480
ccgccccccc ggcgagggcc ccggcgctga gctgcccctt ttccgctcct tgttggggcg    540
ggcgcgctgt tatcgagct gtgagacca gcgcctcggg ggccccgcat cccgccaccg    600
cgtcagcgag gatgtgcgca gcgacttcca gcgcagagt ccctacaact acctgcagcg    660
ggcctacatc aagcttaacc agctcgaaaa agcagtggag gcagctcaca catttttctg    720
ggctaaccct gagcacatgg aaatgcagca gaacattgag aattacaggg cgacagctgg    780
tgttgaagca ttgcagttgg tagacagaga agccaagcca cacatggaga gttacaatgc    840
aggagttaaa cattatgagg ctgatgactt tgagatggct atcaggcact tcgaacaagc    900
cttaagagaa tatttcgttg aagatacaga atgccggacc ctatgtgagg ggcctcagag    960
atttgaagaa tatgagtatt tagggtataa ggctggctctg tatgaagcta ttgcagatca   1020
ctacatgcag gtgcttgttt gtcagcatga atgtgtgagg gaacttgcca cccgccctgg   1080
ccgcctctct cccatcgaga attttcttcc tctgcactat gattacctac agtttgccta   1140
ctatcgagtt ggtgagtatg tgaaagccct ggagtgtgcc aaagcctatc ttctatgcca   1200
tccagatgat gaggatgtcc tagacaatgt ggattactat gagagtctgc tggatgatag   1260
cattgaccgg gcatccattg aggccagaga ggatttaaca atgtttgtga aacgtcataa   1320
gctggagtct gagctgataa aatcagctgc agaaggtctg gggttttcat aactgaacc   1380
gaattattgg atcagatatg gaggacgaca ggatgagaat cgggtccctt caggagtga   1440
```


cgtagaggga gcagaagttc atggattctc aatgggaaaa aagctatcac ccaagataga 1500
tcgagacctc agagaaggtg gtcctctact ctatgagaac atcacattcg tctacaactc 1560
ggagcagctg aacgggactc agcgggttct cctggataac gtcctgtcgg aagaacagtg 1620
ccgggagctc cacagcgtgg ccagtggaat catgcttggt ggtgatggat acagaggaaa 1680
aacttcaccc catacaccca atgaaaagtt tgaaggtgca actgtcctga aagcactcaa 1740
atctggttat gaaggtcgag tcccactgaa gagcgctcgt ctgttttatg acatcagcga 1800
aaaggctcga aggattgtag aatcttattt tatgctgaac tcaactctgt atttttccta 1860
tacacacatg gtctgccgaa cagccctgtc tggtcagcag gatagaagaa atgacctcag 1920
tcatcccatc catgctgaca actgtttgtt ggatccagag gccaacgaat gctggaagga 1980
gcctcctgct tacacatttc gagactatag tgctctccta tatatgaatg atgactttga 2040
aggaggagaa ttcattattc cagagatgga tgctaagact gtgactgcct ctataaaacc 2100
aaaatgtggg cgcattgatc gcttctcatc tggaggagag aacctcatg ggggtgaaggc 2160
agtcaccaag ggaaagaggt gtgctgtggc tctgtggtc accttgacc cactttatag 2220
agaattggag cgaatacagg ctgatgaagt gattgcaatt ctggatcaag aacagcaagg 2280
gaagcatgaa ctgaatatca accctaaaga tgagctataa aatgagaaa gaatgttcta 2340
tcaaataattt atttaaattg ttaatttat gagaaccttt ttatttttgt acagagccat 2400
ggataaaatt aacaggttta tgctagtcac cagatcttcc ttctcttctt aaggatgctt 2460
gtgttgctc aatctatcaa tctatcttct ttgttttggg ttgttttctc tctctctctc 2520
tctctctctc tcttcttaga gacatggtct aacctgttg tctaggatat agggcagtggt 2580
ctattcacag atgtgatgat agcacactgg agcctcaaac tcttaggctc aggcgatcct 2640
tcaagcctcc cggggagctg ggaccacagg cacgtgccac cacaccagc tctctttctt 2700
ggtttttcat catttcatgt atctatcaaa gccagttca cctcctccc caaacacaca 2760
cacacacaca cacacacaca cacaattaag ttgctgcaaa ttcaaaagct tagagagaat 2820
aagcttcttg gtggtgaaac tacaactctc acgtgtgctc cagttctaaa attaacctgt 2880
gcctggtctc tgaagccctt tcttgctctg tgcccttcag ccacatcctt aggtgctaac 2940
ggccatgagc tccgactctc caaagtgagc tccactttgg gtctgaggag cccctggcag 3000
agtcacgct gcctcaggta tcatgggcgt aatgatcacc caggctccgg gagatctcat 3060
ggatgattac tgtatgagac agaggggact tcagtccttc cagggccttg gtggaatttt 3120
tggctctggt gttttcgcca gacaataaac ttacactgga agctttgatt caccctccac 3180

agtactccag aaaggactgt cctataagtt gtacacttta aaaggatcatg tagaggttgt 3240
agtagaatgg cttttcaccc tgggtgacttt ggaagaaact cttgaatact gcctgcatcc 3300
gggcaccatg gccagggttg ctaggagtgg ggtccactga tgaaaagagg tgttttgtac 3360
ttacataaga aaaataaatt tctgattgat ttttaaccgtc atctgcttat attttggggg 3420
ccccctccta ttgctgctat ccagcacaca gatttgtgct tgtgtctgat ttgtttaata 3480
aagggaggct tatttt 3496

<210> 749

<211> 3148

<212> DNA

<213> Homo sapiens

<400> 749

gaacagtaca ggcggttcca tcttcctggg aagacaggga gttacagatc gttttaaggg 60
aatcccagga ctctagaagt ctcttcatg ggtttctctt tctgcacctt tcctgtgaat 120
ggtgtatcca cccgggtccc ctctgcctc tttgcacact ctctgtggtg taacttgcac 180
ccagggttc agcagccatc tatgactga gaccttctg ttcttggggg ggcattcctc 240
gggatttagt gccaggacac acctgtgtgc gcattcactg ggaaaagtct gcagaatcta 300
caccaggcct tcctggaggg cgtgttcctc catctacatt cgtgatggaa caaccagtta 360
ttgtcgccgg gacaccagtg cctcatgcac accatcagcc acgggagttt tactgttaca 420
agcttgtcct cttaggcaca ttcctcctc ctgaacctgc tggcagcagc tcctttaggg 480
gagcgagggt ggctgcttgt cccttccgtc cttgggcagc cagcgctcag ctggatgcat 540
gcagtggaag tcaccttctg cctccactcc tgagcaggat gtgctctccc cacatctcct 600
gtttgcgctt tcagcaatag atcattcaca gccataggag ggggaggcct ccagtcctt 660
ggctttttgt acctggaagg ggatggtgag gcgttcagct gccaggaatc acttccttcc 720
ctccaggac cagccccttg cattgttcat tttctaaagc aaatacttct caggaagtgg 780
ctctcctctt tttttttttt tcctacgaag ctcttttctt aaaagcttac ttttaactgca 840
aaaagttcca ctgttcatgg aggaagaaaa tgaggcttgc tgggtgagac gacagaatag 900

ggcttgctgt aattctctcc tggaggcagg ctctctctct ggctctctgt tcccccttcc 960
ccaacctctg tgaaaccact tcaaggatgg ctcaagctgc gctgatcctt gaggcgccaa 1020
cagcctaagc tgtcagcatc ttctccagag cctggaagta gaggccttgt cacttttttg 1080
tataaaagtt ttgggttaag aggtgccagc agcagaaaca tatgttcaag gatgaaggta 1140
agtctgtctt cacaaatgac tgatcctgaa gatggaccgg cacctccagg cccagggtccc 1200
tgcagaatca ggtgatgggt ccccaaaaca caaatgggtg cacaatgaga aatctggtgg 1260
tgggcttgga cgaaatgggt tggatgctgg gtggtctctt gctttcacct ctgtggcagg 1320
cactgctgag gtgctgggtc cctgggcctt ttcttggctc tgagccatct ggtcagggaa 1380
tgggtaggaa gctggcttac ataaaacagt catgtccctg agaaggctgt gtgggccccca 1440
gcaggcagggt gggttgacct gggagcagcg cctgcaaggc tggcacttgc acaccatccc 1500
gttacacaga gccttcctgc ggttcctgag tgtggtgggg atcctcccgc cacagctggc 1560
agccccatgt ctctctggc tgcacacagg atcactaggg aactttaaaa aggactgat 1620
gccagggtc cacttcggcc aatacaatca gtctctcagg gcagcactgg gaggaggtgt 1680
ttgtggtgtt tcatggacac acacactgcc agcatcaggg agtagtgaca gggtactgag 1740
aacagcagaa tatctagaag tgagttcttc ataactgtgg aacacagaag tcttcctca 1800
cagtgtggcc cttgcccact gctgctggag gagagcgcta aggccctgga acactcgtcc 1860
ttacacagcc agagtctagt gaaggccaca gagccacagc ccactgcctt tatgcactga 1920
tccactccat ttctcattt ttagattgtt ttaacctttg aaagcacaga tcccaatgca 1980
gacgagctcc caattcttgg agttcacaga catttgatcc gtgtttgaaa ataccctagt 2040
ccttgtgcag agttcccaga attccaagtt ttctttccc aggctcgttc ttggagctgg 2100
cccatgatac tagctggact cttgaacatt cctgacctat cacggccacc cttegaggct 2160
tccgattatg cagacacacc atgcccctgc acagtgtca aagtcaggct gccgcatgct 2220
tctatactag acagtcaaag tcggagccca gggctcagca aagcacctgg cacagtggcg 2280
gctgcagaat gagatctgct tgcctgggtg ccaaggctgg agggcagtaa gcttcagtat 2340
cctcagaggc agggggctgc cacctttgca ctaagaagga attactgatt tctaccattt 2400
gagaaaagga gtgttgacca catggaactc cgaatagggt catgcacatg gaacaaagcc 2460
ctttaggaga aaagcccgtt ttttgctgtc tgcctgatac tggatggttg agaaacaatc 2520
gtggtgggca gtcacgccac acttgtgcgg gcctaggaca caggaagggt tagccctggc 2580
ctacagggag ggtgggcaag cacagcaatc ttgtcccca aaagaacatc agtggccgct 2640

ggtgccaaga cccacgggaa ggttagagct ctgggttaca tttgtggaga gagacacaga 2700
 cagcggcaga gacagagacg tagtaatcca ggctgtgtgg cataagaaga taaagcggcc 2760
 cccagcccg gggcccctcc catggacctc atggtaccga gcctccattt tctcatctgt 2820
 tcagtgagga tgaagcctca cctcccaggg ttttcgcaaa gacagggaga ctggccgggc 2880
 gccgtggctt acgcctataa tcccagcacc ttgggaggcc gaggcaggcg gatcacaagg 2940
 tcaggagttt gagaccagcc taaccaacat ggtgaaaccc cgtctctact aaaaatacaa 3000
 aaattaggca ggcgtgggtg cagcacctg taatcccagc tactcaggag gctgaggcag 3060
 gagaatcact tgaaccagg aggcagaggt tgcagtgagc cgagattgcg ccaactgcact 3120
 ccagcctggg tgacagagca agactctc 3148

<210> 750

<211> 3660

<212> DNA

<213> Homo sapiens

<400> 750

aaaaacagaa ggcaggattg ttcggagatg ccggatggca gccatgagaa agacccact 60
 ggtctgagag gtctgtgcag gaatgcacgg agcctgggaa acacagagag gtatggggcc 120
 tgagggtgag gacgcaggac aggttaggga cgggtggcgc tgggtgctgg ctctggcaga 180
 gagcaagcca actgggggca tttctttcca gccccgtggc tgatggtctc gccgtgcgtg 240
 atggtgaatt ttatgtgtcg ccttgatggg accttggggg tgctcagaca tttggtcaag 300
 cctctgtgtt tgcgaggatg tttctggatg ggactagcat tcaaactctc agaccgaggc 360
 aagcagagtg tcctccccgc agaaggtggg cctcacctca tccatcaggg gcctgaatag 420
 aataaaaagt tgaagaggag agaattatit gcctctgcct gtcttcaagg tggaaccata 480
 ggtcttctcc tgccttttga cttagactca gcagaaagag cacctcccct ggccaatgct 540
 tttggcagga ttccagaatg tgcactcctg gagccctgga ccacggctgg cttggttcca 600
 gcccatctgt gaccatctct cctaggatgc tgggatgttc tgtggggcca agctagggct 660
 acttgcctac ttctgctgca agggaggggt cagcccatg ggaaccataa gtgtggggat 720

tggggcagcc tgatttctta ggaagaactg ctgccctctt tctaggaaaa aggagaaggg 780
atttcaggca gccaagcta acagaggcct gctgtgact tgtgtgttct gagcactggc 840
taggaagtgc agggcttcca agaagaccta aaattcatga gaaccaagac aaggcagtga 900
aggtgtgatc ctgataaaag gtgaccaaga caaggcagtg aacgtgtcat cctgataaaa 960
ggtgactgca ggggctgccc agggcaggga gggctcagcc tggagtgggt ccatcccgtc 1020
cttgagtcat tctgtccttc ccctcatctg acaggtgcct ggctctttgt tcttccttca 1080
tcgtggggga caagggtgca ggggacgacg tgttcatttt cctctcctat gctcagctca 1140
cgcccccg cctccactcc ccgcctcaca ctgatcactt tcccattcag caggttcgat 1200
gcacgcacag gatgcacgcg cctccttgca gaacaccgtg tggggcttcc agtgagcgtc 1260
tcatattgta aatgccactg tgccccggat cccactgttt cactcaacac tgttcttgat 1320
tgttgtcatc aagtttaaaa aaaaaatta tggtaaaata catataagct aaaactgacc 1380
ttttttttt ttttttttt gaggtggagt cttgctctgt ccccaggct ggagtgcagt 1440
ggcacaatct cagctcactg cagcctccgc ctctgggtt caaatgatcc tcctgcctca 1500
gcctccaag tagctgggat tacaggcacc caccaccaca ccaggctaatt ttttgtattt 1560
ttagtagaga cggggtttca ccatgttgat caggctggtc tcgaactcct gacctcaagt 1620
gatttgcccc cctcagctc ccagagtgtt gggattacag gtgtgagcta ctgcaccag 1680
cccatittaa ccatttctaa gtgtattgtt cactggcatt aagttcattc aaactgttgt 1740
gcagctgcca ccatcatcca tctccagaac ttgtcatttt tccaaactga aactctgttc 1800
ccattaaacc ccaactctat gtttctctct ccccagccc ctggcaacca ccatgtact 1860
ttctgtctct atgggtttga ccattctagg gacctcattt aacctgagcc ctacagcctt 1920
cacctttctg tggctgattt atttcaattg gcgtgacatc ctcaaagttc atccatgttg 1980
tcacctgtgt cagaatctcc ttatttccaa ggctgagtga tattccgttg tgtggatgga 2040
ccacactctg tttattcatt cacctgtcaa tggatgtttg gccatttct accttcggc 2100
tagtgtgaaa aaaagcagct gagaacatga gtgtacaaat acctctttga aaccctgcat 2160
ttagttcttt tggagacaga cccagaagtg gtattgctgg atgacatgct aattccatgt 2220
ttaatttttg gagaaacagc cateccattt tccacagggg ccgcaccgtt ttacatcccc 2280
accacagtg tgcaagggtt ccagtttctc catggcctcg ctgacacttg ttattctcca 2340
cctcgttgac agtagccatc ctgaggagtg tgagggtgtg ctgtgtgtta ttctccacct 2400
cattgacagt agccatcctg aggagtgtga ggtgggtgctg tgtgttattc tccacctcat 2460

tgacagtagc catcctgagg agtgtgaggt ggtgctgtgt gttattctcc acctcggtga 2520
cagtagccat cctgaggagt gtgaggtggt gctgtgtgtt acttttactt gtctccatgc 2580
agctaagggc acgccagtgc acgcctaata caggcggggg gacacctgca cagttccatc 2640
tgctgcttca cgacgtgttg ctaactcagt cgccgaccac tggactctgg gctgctccat 2700
tcctaacttc cacagtgttg atggataccg atgcaagccc ttctggggaa gacacagtga 2760
gagcctctct cagccatgca ttcctcagcc tgactgcaag gtcgcagccc cctacaaagc 2820
ccagtctgag tgcttcccag gctgccatgt gccaggtctc cctcccacgg ctgtcctgga 2880
aggctctgct ttgcaccaac ttgccagcac ttggcattag tcaaccctct agcttttacc 2940
aatctgatgg gtgtaaaggg aattcctgcg ttttactttg catttctctg attcctgtgg 3000
gtttgagcag ctcttcattg aattgtgtgt catttgcact ttcccttctg ggaattgtct 3060
gttgggggtg gctttctgtc aacttaaaca ggagcaaact tggttacttt taattaaaag 3120
caggctcgtg gcagcagggg agttttacat gcataggaag gtcaggtcca gccctgccca 3180
tcttcgtgca tactctctct ttggtcactg ctgtgcggca tggtagctt ggcacctggc 3240
cttcagaatg cagccacaga agggagttca tgggccaggc attctgctaa gggacacagc 3300
tgtctctggc tcctgcatcc aattactgga ctctctgctt cattgctctg gtggagctgc 3360
cagcctgagt ctccacatgt tctttcaaca ctcccttggg ggccagccca gtgtgctttt 3420
aatcattgac aagcaagggt atgccacaga gaaggatgtt ggctgctgtt caggcatttg 3480
gggactggca gggagggtg ctgtccacga cggaggatgc cacaagtgga ttcaagactg 3540
agttttttgt ttttctatcc atcaactcaa gcatttggtt tttgtttgt gttacacata 3600
gtccaattat actcttttag ctatttttaa atgtacaata aatttttatt gattctagtc 3660

<210> 751

<211> 4092

<212> DNA

<213> Homo sapiens

<400> 751

gagaaaggcg ggcgagctgg cgctcaggtg tgttcttcca tagggcccgg gcggcagaga 60

ggaccgcgtc ccggcagtcg gagcgggagg aggacaagac gatgccgctg tccccgccag 120
cccagggcga ccccggggag ccagcccgt gcaggcccc taagaagcac accaccttc 180
acctctggcg ctccaaaaag aagcagcagc cggcgccgcc tgactgtggg gtgttcgttc 240
cgcacccgct cccggcgcct gccggagagg ccagagcttt ggatgtagtc gatggaaaat 300
atgtggttcg agactcccag gaatttcac tgcactgtgg ggaatcccag ttcttcaca 360
ccaccagtga ggcgcttggt tccttacttc tagagtctgg aatatttaa aagtccagag 420
cacaacctcc agaagacaac agaaggaagc cagttttggg gaaacttggc actctattca 480
ctgcaggaag gagaagaaac agtagaaacg ggtagagag tcccaccaga tcgaatgcca 540
aaccactctc tcccaaagat gtggtagcct ctctaagct cccagagaga gagagtgaga 600
ggagcagatc tcagagcagc caactgaagc aaacggacac aagcgaggag ggctccccgc 660
gggagaatcc ccgagaggca gagggcgagc tccccgagag cgggtggccc gcagcccccc 720
ctgacgccga gctgtcacct cgctggagca gcagtgcagc ggctgtggct gtgcagcagt 780
gccatgaaaa tgattcacc caattagaac ctctggaggc agagggagag cttttcccag 840
atgccaccac cactgccaag cagctgcatt cctcgccggg aaattcctcc aggcaagaga 900
acgcagagac gcccgccgc agtccggggg aggacgcttc accaggtgct ggccacgaac 960
aggaggcttt cctgggtgtg aggggtgcgc cagggtcgcc caccaggag cggcccgcgg 1020
gaggactagg cgaggcccct aacggagccc ccagtgtgtg tgccgaagag ggctccctgg 1080
ggccccgcaa cgccgcagc cagccccgca agggcgcgtc tgatttgcca ggtgagcctc 1140
cggccgaagg cgcagcgcac acggccagct ccgcgcaggc agactgcaca gcccgcacca 1200
agggtcacgc ccaccctgct aaggtgctaa ctttggacat ctacttgagt aagactgagg 1260
gggcacaagt ggacgagccg gtcgtgatta ctcccagagc ggaagattgc ggtgactggg 1320
acgacatgga gaagaggtcc agcggccgta ggtcggggag gcggaggggg tcgcagaaat 1380
ccaccgactc ccccggcgcg gacgccgagc tccctgagag cgctgccagg gacgacgcgg 1440
tgttcgacga cgaggtggcg ccaaacgcgg ccagcgataa cgcctcggcg gaaaagaaag 1500
tgaaatctcc gcgggcagcc ctgcagggg gcgttgccctc cgctgcgagc ccagaatcca 1560
agcccagccc cggtagcaaa gggcagctcc gaggggagtc ggaccggagc aaacagccac 1620
ccccggcttc gtccccacg aagaggaagg gcaggagccg tgccctcgag gccgtgcccg 1680
ccccgcccgc cagcggcccc cgggctcccc ccaaggagtc cccaccaag aggggtgcccg 1740
atcccagccc agtcaccaag ggcactgcgg ccgagagcgg ggaggaggcg gcgcgggcca 1800

tccccgcga gctcccggtc aagagcagct cgctgctgcc ggagatcaag cccgagcaca 1860
agagggggccc gctccccaac cacttcaacg gccgggcaga gggaggtcga agcagagagc 1920
tgggcagagc ggccggagcg cctggagctt ctgacgccga cggcttgaag cccaggaacc 1980
atttcggcgt gggcaggtcg acagtacca ctaaagtac cctccctgcc aagcccaaac 2040
atgtggaact aaatcttaaa acccctaaga atcttgacag tttgggaaat gagcacaatc 2100
catttagcca gccagttcac aaaggcaaca ctgccaccaa aatctccta tttgaaaaca 2160
aacggacaaa cagtagccca agacacactg acattcgagg ccaaaggaat actcctgcct 2220
ctagtaaaac gtttgttggg agggcaaagc tgaatttagc caaaaagcc aaagaaatgg 2280
agcaacctga aaagaaagta atgccaaaca gtccccagaa tgggtgtgctg gttaaggaaa 2340
ctgctataga aaccaaagtt accgtctcgg aagaagagat tctgccagca accagaggaa 2400
tgaatggaga ctcttctgag aatcaagctc ttggctctca gcctaacaa gatgataaag 2460
cagatgtaca aacagatgct ggctgccttt cagaaccagt ggcttctgct ctgattcctg 2520
tcaaggatca taagctctta gagaaggagg actcagaggc tgcagacagc aaaagccttg 2580
tacttgaaaa tgtaaccgat acagcacaag acatccccac cactgtggat accaaagatt 2640
tacctccaac ggccatgcca aagccacagc atacattttc tgactcacag tcccctgctg 2700
agtcactctc tgggccttct ctttactgt ctgcacccgc tcctggggat gttcccaaag 2760
acacatgtgt tcaatcccc ataagcagtt tcccatgcac tgatctaaaa gtgtcagaaa 2820
accataaagg atgtgttttg cctgtgtctc gtcagaacaa tgagaaaatg ccacttttag 2880
aacttggagg agaaacaacc cctcctttgt ccacagagcg tagtccagaa gctgtgggaa 2940
gtgagtgtcc atccagagtc ctcgtccagg tcaggctcctt cgtgctcccc gtggagagca 3000
cccaggatgt gagctcccag gtcatcccag agagctctga agttagagaa gtgcagttgc 3060
caacttgtca cagtaatgaa cctgaagtgg tttccgttgc aagttgtgct cccccacaag 3120
aggaagtact gggcaatgaa cactctcatt gcacagcaga gctcgcggca aaatctggcc 3180
cacaagtcat accgccagca tcagagaaaa ctctgcctat tcaggctcaa agtcagggca 3240
gcagaacacc cctgatggct gaatccagtc ccaccaactc tcccagcagc ggaaatcact 3300
tagccactcc tcaaaggcca gatcagactg ttacaaatgg ccaggatagc cctgccagcc 3360
ttttgaacat ttctgttggt agtgatgata gtgtatttga ttcttcttct gatatggaaa 3420
aattcactga aattataaaa cagatggata gcgcagtttg tatgcccagc aaaagaaaga 3480
aggccaggat gccaaactct cctgctcctc actttgccat gcctcctatt cacgaagacc 3540

atttagaaaa ggtgtttgat cccaaagtgt ttacctttgg tttggggaag aagaaggaaa 3600
 gtcagccaga aatgtcaccg gctttacatt tgatgcagaa ccttgacaca aaatccaaac 3660
 tgagacccaa acgtgcatct gctgaacaga ggcctctctt caagtccttg cacaccaaca 3720
 ctaatgggaa cagtgagcct ctggtgatgc cggaaatcaa tgacaaagag aacagggacg 3780
 tcacaaatgg tggcattaag agatcgagac tagaaaaaag tgcacttttc tcaagcttgt 3840
 tatcttcttt accacaagac aaaatctttt ctccttctgt gacatcagtc aacactatga 3900
 ccacggcttt cagtacttct cagaacgggt ccctatctca gtcttcagtg tcacagccca 3960
 cgactgaggg tgccccgcc tgtggtttga acaaagaaca gtcaaactct ctgccccgaca 4020
 actccttaaa ggtcttcaat ttcaactcgt caagtacatc acactccagt ttgaaaagtc 4080
 caagccacat gg 4092

<210> 752

<211> 3146

<212> DNA

<213> Homo sapiens

<400> 752

acattctcat tttaatcttc aagcaactct gaattagttg ctgttatccc agacttacag 60
 gcaggaagca ggctcagaga agtgaagggt tccaacttag acgtgccagg ctgtgcacag 120
 gtggggacct ctgaggggcc tgctctgac tgggttgggg ctgccccagg acccttggag 180
 gagccgccac cagagcaatg ggtggagggt ccggggagga gcaactctat gctgactttc 240
 cagaacttga cctctcccag ctggatgcca gcgactttga ctcggccacc tgctttgggg 300
 agctgcagtg gtgcccagag aactcagaga ctgaacccaa ccagtacagc cccgatgact 360
 ccgagctctt ccagattgac agtgagaatg aggccctcct ggcagagctc accaagaccc 420
 tggatgacat ccctgaagat gacgtgggtc tggctgcctt cccagccctg gatggtggag 480
 acgctctatc atgcacctca gcttcgcctg cccctcctc tgcaccccc agccctgccc 540
 cggagaagcc ctcggcccca gcccctgagg tggacgagct ctactggcg gacagcacc 600
 aagacaagaa ggctcccatg atgcagtctc agagccgaag ttgtacagaa ctacataagc 660

acctcacctc ggcacagtgc tgcctgcagg atcgggggtct gcagccacca tgcctccaga 720
gtccccggct ccctgccaag gaggacaagg agccgggtga ggactgcccg agcccccagc 780
cagctccagc ctctccccgg gactccctag ctctgggcag ggcagacccc ggtgccccgg 840
tttcccagga agacatgcag gcgatggtgc aactcatacg ctacatgcac acctactgcc 900
tccccagag gaagctgccc ccacagaccc ctgagccact cccaaggcc tgcagcaacc 960
cctcccagca ggtcagatcc cggccctggt cccggcacca ctccaaagcc tcctgggctg 1020
agttctccat tctgaggga cttctggctc aagacgtgct ctgtgatgtc agcaaaccct 1080
accgtctggc cacgcctgtt tatgcctccc tcacacctcg gtcaaggccc aggcccccca 1140
aagacagtca ggcctcccct ggtcgcccgt cctcggtgga ggaggttaagg atcgcagctt 1200
cacccaagag caccgggccc agaccaagcc tgcgcccact gcggctggag gtgaaaagg 1260
agggtccgcc gcctgccaga ctgcagcagc aggaggagga agacgaggaa gaagaggagg 1320
aggaagagga agaagaaaaa gaggaggagg aggagtgggg caggaaaagg ccaggccgag 1380
gcctgccatg gacgaagctg gggaggaagc tggagagctc tgtgtgcccc gtgcggcggtt 1440
ctcggagact gaaccctgag ctgggcccct ggctgacatt tgcagatgag ccgctggtcc 1500
cctcggagcc ccaaggtgct ctgccctcac tgtgcc'tggc tccaaggcc tacgacgtag 1560
agcgggagct gggcagcccc acggacgagg acagtggcca agaccagcag ctctacggg 1620
gaccccagat ccctgccctg gagagcccct gtgagagtgg gtgtggggac atggatgagg 1680
accccagctg cccgcagctc cctcccagag actctcccag gtgcctcatg ctggccttgt 1740
cacaaagcga cccaactttt ggcaagaaga gctttgagca gaccttgaca gtggagctct 1800
gtggcacagc aggactcacc ccacccacca caccaccgta caagcccaca gaggaggatc 1860
ccttcaaacc agacatcaag catagtctag gcaaagaaat agctctcagc ctcccctccc 1920
ctgagggcct ctactcaag gccaccccag gggctgcccc caagctgcca aagaagcacc 1980
cagagcgaag tgagctcctg tcccacctgc gacatgccac agcccagcca gcctcccagg 2040
ctggccagaa gcgtcccttc tectgttcct ttggagacca tgactactgc caggtgctcc 2100
gaccagaagg cgtcctgcaa aggaaggtgc tgaggtcctg ggagccgtct ggggttcacc 2160
ttgaggactg gccccagcag ggtgcccctt gggctgaggc acaggcccct ggcagggagg 2220
aagacagaag ctgtgatgct ggcgccccac ccaaggacag cacgtgctg agagaccatg 2280
agatccgtgc cagcctcacc aaacactttg ggctgctgga gaccgccctg gaggaggaag 2340
acctggcctc ctgcaagagc cctgagtatg aactgtctt tgaagacagc agcagcagca 2400

gcggcgagag cagcttcctc ccagaggagg aagaggaaga aggggaggag gaggaggagg 2460
 acgatgaaga agaggactca ggggtcagcc ccacttgctc tgaccactgc ccctaccaga 2520
 gcccaccaag caaggccaac cggcagctct gttcccgcag ccgctcaagc tctggctctt 2580
 caccctgcca ctcttggtca ccagccactc gaaggaactt cagatgtgag agcagagggc 2640
 cgtgttcaga cagaacgcca agcatccggc acgccaggaa gcggcgggaa aaggccattg 2700
 gggaaggccg cgtggtgtac attcaaaatc tctccagcga catgagctcc cgagagctga 2760
 agaggcgctt tgaagtgttt ggtgagattg aggagtgcga ggtgctgaca agaaatagga 2820
 gaggcgagaa gtacggcttc atcacctacc ggtgttctga gcacgcggcc ctctctttga 2880
 caaaggcgcg tgccttgagg aagcgcaacg agccctcctt ccagctgagc tacggagggc 2940
 tccggcactt ctgctggccc agatacactg actacgattc caattcagaa gaggcccttc 3000
 ctgcgtcagg gaaaagcaag tatgaagcca tggattttga cagcttactg aaagaggccc 3060
 agcagagcct gcattgataa cagccttaac cctcgaggaa tacctcaata cctcagacaa 3120
 ggcccttcca atatgtttac gttttc 3146

<210> 753

<211> 3859

<212> DNA

<213> Homo sapiens

<400> 753

atcgagggca tctgaccctg ggtgcacgag tgaattaatt gagttaatgt tgactaagtt 60
 cctggttagt attcacggag caattggtga cccacacaaa acgtcgttca aggtgcaagg 120
 tccagaggcc tcgaggagtg ggattttacc atcgaggccg tccgctcaga cgccgttagt 180
 ggagggttcc gccgacttca cgggagttag gaaagtcact tttggaaatc gactttgcct 240
 tcgcccgcga agcccggcag cgtccggact cgagttgccc ccggagccac tgccggaagt 300
 ttaccagctc actttcggcg tcgcgcccgc ctccgtggag caggccggaa gtggctttcc 360
 ggcagccgcc gccgcagctc cgtaaagcaa gatggcacta ctactctga ggctattatc 420
 tccgttttat atctagtatt cctctttctc ccagttactc tcgatttccg tcccgcgccc 480

taatttttctt cagcaccaca ttctcatgtt tttctttcat tcagccttgg tggagtatgg 540
tctggaggca acctacggct agcctgagca acgtggggca ccattttgta cggaactga 600
aggcagggcg ggggagtgtg aggcctcccg aggaggcccg gcttgagaga gagcgtggga 660
gggagagcgt tgttcaccga tgatgtattt ccgcttctgg tctgcctggt cgtttttgggt 720
tggatcggct tgttgcgggg agggaggggg gagattgttt gcagcataga agctccgcgg 780
acgggaaggt aaactgagct cccagagac gctcatccta cagcctcagc tcgggcccag 840
ccttctctct ccagctgcca ccacagcctg gaggcgcctg cctccaccct cccgaatggt 900
gctcctccta gcaggcctcg gtccaggatc caagccccct ttgccccctg ccttggagct 960
gttgctccgg gtttgcaca gtggactccc tgtggcggga agggaagaac ttttgcacag 1020
acaaggcttc agctctagga accccactga caacttgaat ctcaacctct aacctagtgt 1080
gaggttcttc ctgtgcccac cttttctgcc ttttgagaag agaaactctt ctcttgcca 1140
tctagagccc aggaagcccc aagctggggc cctgggtccca gcatgtcagt cctctcttgt 1200
gcatagggct ctgccctccc cctgtcagca tggctgagct cagacaggtt ccaggagggc 1260
gggagacccc acagggggag ctgcggcctg aagtgtaga ggatgaagtc ctaggagacc 1320
cagtcgcaga agagcctgga ggaggtggaa gcagcagcag tgaggccaaa ttgtcccaa 1380
gagaggagga agaactggat cctagaatac aggaggagt ggagcacctg aaccaggcca 1440
gcgaggagat caaccaggtg gaactacagc tggatgaggc caggaccacc tatcgaggga 1500
tcctacagga gtcggcgagg aaactgaata cacagggttc ccacttgggg agctgcatcg 1560
agaaagcccc gccctactat gaggctcggc ggctggctaa ggaggctcag caggagacac 1620
agaaggcagc gctgcggtac gagcgggccc taagcatgca caacgtgct cgagaaatgg 1680
tgtttgtggc tgagcagggc gtcattggctg acaagaaccg actggacccc acgtggcagg 1740
agatgctgaa ccatgctacc tgcaaggtga atgaggcgga ggaagagcgg cttcgagggtg 1800
agcgggagca ccagcgagtg actcggtgt gccaacaggc tgaggctcgg gtccaagccc 1860
tgcagaagac cctccggagg gccatcgga agagccgccc ctactttgag ctcaaggccc 1920
agttcagcca gatcctggag gagcacaagg ccaaggtgac agaactggag cagcaggtag 1980
ctcaggccaa gacgcgctac tccgtggccc ttcgtaacct ggagcagatc agcgagcaga 2040
ttcacgcagc gcgccgcggg ggtctgcctc cccaccccct gggccctcgg cgctcctccc 2100
ccgtgggggc cgaggcagga cccgaggaca tggaggacgg agacagcggg attgaggggg 2160
ccgagggtgc ggggctggag gagggcagca gcctggggcc cggccccgcc cccgacaccg 2220

ataccctgag tctgctgagc ctgcgcacgg tggcttcaga cctgcagaag tgcgactccg 2280
tggagcactt gcgaggcctc tcggaccacg tcagtctgga cggccaagag ctgggaacgc 2340
ggagtggagg gcgccggggc agcgacggcg gagcccgtgg gggtcggcac cagcgcagcg 2400
tcagcctgta gccgaggggc cagggttcct ggcttgaatc tgccaccacg ggccggttgg 2460
ggcccacagt cttctcacgc cctctcctct ggggcctcgt cttcccgaag gtccccttct 2520
ccagtgcctc cctgggagag gccagctgtg ttcgagtcct ctgtgcctgc cctggcgctc 2580
tcagagcctc ccccttcccc tcagcaggcg gctctctttg ccttaccat tcagaaggct 2640
cgccctcggc gctctgtctg cctctgcctg ccagctcatc acgatctgca gggcattgac 2700
cctttgcttt ccttttctgc tccctctctt tccatctgtt tggcttttct cctcagggaa 2760
cttggcttag aaggcactgg gaagctcatc agagaaaatg ggtgctgggc ctgagtactc 2820
ccgtcggagg ggatggacag tcaccctcc cgttggtttc cagccccgcc ccccttccca 2880
aggcaactct ggagggtacc ctaggtatgc tgctgagccc tgcccccggt cctgctccag 2940
cctgcccgtg tgtaacctgt aagatgtact gtgtgcctcc ggaagacacc acctttccct 3000
tcagcattcc ctttcatgac ctgaggcact ctgcgatgtg tgcccaaag cagaacttac 3060
agggcctgca ggaagctggg gtcagggaga gaaaccaac cccactgtca acatagggag 3120
catcaccaac tccagactgg ctctgtggg tatgggtgtt ccgctgggct gggtcctcaa 3180
cattgccaag gtgctagtgg gtccctaaga gggcccatgt tgggggtgaa gtcatgaggt 3240
cctgaaggct taggcccctg tcattccac cctcactctt gctgcacagt tgtgtttact 3300
ttttctgggt agaggatgct gaactgactc agcacctcc tgcagggcgg ggttagggaa 3360
tttggtgctc aattgctctc ccttgctctt ccccaaactg aaaataccta ctgcaggatc 3420
cctcggggca cactgaagct tggttgccaa ccctcttact tcctttgtta cagggagggg 3480
ttggcttggg gtgaaaagtt ctgccctccg cagggagcag ctccagctgc ctggcagtgc 3540
tcccagtttg tagggaagcc acaccagatc tgggtgcctt gggagaacca gtccttcctt 3600
ttgaccacc ccaggaagat ggagtgtctt tttctaggcc catgttctgc cagcaaccgg 3660
gatgcgtggg caactggact ctgcacgggg gtctacaggt tgagggaggt tggtcacaat 3720
gagaacctcg gggtttgagg tggccatggg cagacagccg aaagggaggg aggggtgtggg 3780
tgtgcgtgtg tgcatgtgct ggtgtgtaag ggggaaaggg tctttcctgg ttttatttaa 3840
ataaagtagt ttatgtaac 3859

<210> 754

<211> 3450

<212> DNA

<213> Homo sapiens

<400> 754

```
ctaacacggc tctccgggt cacgtgggtg ggctcagcgg cctcccgtgc ctcccctagg 60
tctggagtct cccctgccct ctcgttgggc tccaagcctc ttcctcagcc cagcttcctg 120
ctttgtggca gccgtgcttt ctggaagctg agcagcttct tttttttttt ttttttttg 180
agacggaatt tctttgtccc ccggactgga gtgcaatggc acgatctcag ttcactgcag 240
cctccgcctc ctgggttcaa gtgattctcc tgcctcagcc tcccagtag ttgggactat 300
aggccccac caccttgccc ggctaagtgt tttgtatttt tggtagagat ggtgtttcac 360
catgctggcc agttcgagac tggctttgaa ctcgtaacct caggtgatcc tctgcctcg 420
gccttccaaa gtgctgggat tacaggcgtg agccaccgca cctggcctct tgttcatgtt 480
ttatgtgtaa attggtcctc tgctatttct gttgctcaga ggtggaaagg agaagggaac 540
acgataaagt cacacatcca cactgttgac aggggtttgg cttccaggga acacacctct 600
gtggcctcag ggctatgtcc tgaattctaa aacggggctc tcacggctga cccgatgtca 660
ctgggtcccc gtttctgtct tgagtctctt cggagcccag tgttgactcc cgctcttcgt 720
ggctgccccg gctatctggc catgaggagc tgaccacgca cctggccgga ctcacatccg 780
ctccgctagg gaagacctgg gggcggaggt cggctctctga ccagccagcg tccctgcagg 840
ggactgcgag taggaggcgg gtattgcccc cgccagggcc tgtggtctga gagggctggc 900
ccttgacgga caggtgggca agtccccctc ccacatctct aggcaccagg gcgtagcgta 960
ccatgtgtgc tgtgtttgtg gttgggttca ggtactgccc tgtaggcgtg tctgctctga 1020
gcctcctggg acagcctgaa gtggttgctg cacagctgct ttggggcctc ccaggggtgt 1080
gttcctgctc ccacctggg gtgctctgag ttggtcttgg gttagagaag tgcagtggct 1140
ggtgtgtgcg cagcctaggg gcctaggacc tgcttctcag agcatcacgg ggccccacaa 1200
gaagtgcccc ctggggaggt gacagcgtct tccagaaatg ccgccgcca caaggaggac 1260
tggcctgtgc cggaagctgg agatgggtgg gtcctgatgg cacctggtag gtgagggtgc 1320
```

cccagagaaa cagagccaag gcggcggcct ggagacagat tctgtggaat ctgcccactc 1380
tgttgtgggg cctgccaagc tcagcatctg cagggtggac cgaaccccgg ggaaagagtc 1440
agtgttgat tctcaagagt ccagaggcca tccagggcag agtgctcccc tcagaggacc 1500
tcagtctttt cttagtcctt cacctgattg gatgaggccc acccactcat ggcgatcagc 1560
tgatttactc agagctgact gatttaaagt ttaatttcat ctaaagaagt aactatacag 1620
aaacatccag attaattggtt gacaaaaatc tgggcactgt ggctcagcca ggctggcaca 1680
taacattacc catcgcatgt tagttggaag cttggccttt ggaattaaact cagcctggtc 1740
agccgttagc agccagcagt ctctgttctg ccacacacc tctgtggact gaccaggac 1800
acaggtagc agcatccatg agaaactgtg gtgcttctct cctatgggac agatggagcc 1860
ccgctccctt ctgtgtgga atggtccagg agcatcttgt gcgggtgggt ggggggcgag 1920
ggcagggcct ccgcatgagg gagagcagcg agcggcagcc actccttcgc cgagccagca 1980
gggccatctc ctgtctgcct caaccactac tggactcagc ctttctcccc cagcagtgc 2040
atcaaaatag cctatttata ggacataaca aagatgatgc cagctgttaa taaaaatgtc 2100
cgctaatacag gcagttcact tgctgcagtt ttttggggtc ccaagggcc agcccaggct 2160
cctgtgccct tggccaccgt gggccagtc ctggggctct gtgggagcct ccgcgggcct 2220
gggagtggca ggacccttag agggcgagag ttcacatgag agcgtggggt tctgactcgc 2280
gagggttcac gtgagagcgt ggggttctga gtcgcgaggg ttcacgtgag agcgtggggt 2340
tctgactccc tcgtgtcatt tcagccgcgg cgagtccttt gcacatgttg gcaacacacg 2400
catccgcatc ggctccctg ccacaaaagc gccacaacgg tgaccagccg gagcagccgg 2460
agctgaagcg gatcaagaca gaagacggcg agggcatcgt cattgccctg agcgtggaca 2520
cgccaccggc agccgtaagg gaaaagggtg tccagaacta gcgaccggga gagcttttct 2580
ttaacgatat caactctgtg gtgccaaaag gagacgcggc ctcccgccag cactcggggg 2640
tgcagggcc tgtggttga cttcacctct cagcactgaa aacccaaaac ccagctggcc 2700
ttaacactcc ttaaagacag aagtcacact tgaacaaaac ccacacacaa caaacctga 2760
tttgggagac ggtgtctcca ctgagcacct gctgggctga gcttctacct acgagtgaaa 2820
ctctgtcctc ccgcaggac caggcatcgc tgtgtgagga cggcacggcc agcgcctgct 2880
gtgagtgggt ctccaagac taggcctcag gacgcggggg gagccatccc cgccgccctc 2940
acaggacca ccaggcagcg gagacatgtg gaattagagt attttgaggt gtcctttctt 3000
tacaaaataa tggggctctt ggcatctcac atcactccat ttctactgag actttcagaa 3060

tcacacaggc cctttccgtg gatttcattt ggggcaaaga aacaacgtag ttttgttttt 3120
 gttttcagcc tatggaatga tttccttttg tctgtcttgt tcaagttcag acgaagctac 3180
 tctggcatct gcacatttcc gtgttacagc agctgcctga tgaattttat ccacctccat 3240
 ttcagcatgt ggctcgcgtg gacaggtgga cggacgctgt ggccgcatgg aaccttgaga 3300
 acccagggac gagccagtgc cgggaaggaa ctgccgggac tcaccgagct gcaacttaact 3360
 gttctctttc tggctatttt ttgttgtttg tttctttgtg ttgactttgt ccctggcaaa 3420
 attttccact ctgagtaaaa caagtctcct 3450

<210> 755

<211> 4532

<212> DNA

<213> Homo sapiens

<400> 755

aatgctgggg ctgctgccgc ggtcatgagg gagccgctcc cgggcagcgc ttcctggggg 60
 acccctggcc ccccgagcgc cgggaccatg tcccagctgc agctgtggct gcagtttgag 120
 gctctgaaca aggactctc ctattttgag gacttctcca acatctccat cttctcctcg 180
 tccgtggact ccctgtcgga catcgtggac acgcccact tcctgccggc tgacagcctc 240
 aaccaggtgt ccaccatctg ggacgataac cctgccccct ccaccacga taagctgttc 300
 cagctcagca ggccgtttgc aggtttcgag gactttctgc cctcccacag caccctgctt 360
 ctgctcagct accaggagca gagtgtgcag agccagccag aggaggagga cgaggctgag 420
 gaggaggagg cggaggagct ggggcacaca gagacctacg ccgactacgt gccgtccaag 480
 tccaagatcg ggaagcagca cccagaccgc gtggtggaga ccagcacact gtccagcgtc 540
 ccaccccccag acatcaccta caccctggcc ctgccctcgg acagcggggc cctgtctgcc 600
 ctgcagctag aggccatcac ctacgcctgc cagcaacacg aggtcctgct cccagcggg 660
 cagcgcgcgg gctttctcat cggcgatggg gccggcgtgg gcaaaggccg gacggtggcc 720
 ggagtcatcc tggagaacca cctgcgcggc cggaagaaag cattgtggtt cagcgtctcc 780
 aacgacctca agtacgatgc ggagcgcgac ctgcgggaca tcgaagccac gggcatcgcg 840

gtgcacgcgc tcagcaagat caagtacggt gacaccacta cctcagaggg cgctctcttc 900
gccacctact ccgccctgat tggggagagc caggccggcg gccagcaccg cactcgcctc 960
cggcagatcc tggactggtg tggggaggcc ttcgagggcg tcatcgtgtt cgacgagtgt 1020
cacaaagcca agaatgccgg ctccaccaag atgggcaagg ctgtgctaga cctgcagaac 1080
aagctgcccc tggcccgcgt ggtctacgcc agcgccacag gtgcctctga gcctcggaac 1140
atgatctaca tgagccgctt gggatatctgg ggcgagggca cacccttcg gaactttgag 1200
gagttcctgc acgcatcga gaagaggggc gttggcgcca tggagatcgt ggccatggac 1260
atgaaggta gcgcatgta catcgacgc cagctcagct tctccggcgt cacccttcgc 1320
atcgaggaga tcccgtggc cccagccttc gaggcgtct acaaccgcg gcccttctg 1380
tgggccgagg ccctgaacgt gttccagcag gcggccgact ggatcggcct ggagtcgcgc 1440
aagtcctgt ggggccagtt ctggtcggca caccagcgt tcttcaagta tctgtgcatc 1500
gcagccaagg tgcgccggct ggtggagctg gcccagagag agctggcgcg agacaagtgc 1560
gtggtcatcg ggctgcagtc cacgggcgag gcgcgcacgc gggaggtgct gggggagaac 1620
gatgggcacc tcaactgctt cgtctcggcc gctgaaggcg tgttctgtc gctaattcag 1680
aagcactttc cgtccacca gagaaagcgg gacagaggag cgggcagcaa gcggaaacgg 1740
cgacctcggg gacgcggggc caaagcccc cggctggcgt gcgagacagc gggcgtcatc 1800
cgcatcagtg acgacagcag cacggagtcg gaccctggcc tggacagcga cttcaactcc 1860
ttccccgagt ccctggtgga tgacgacgtt gtcacgttg atgcagtcgg gctccccagt 1920
gacgaccggg gaccctgtg cctcctgcag agagaccgc atggccccgg ggtcctggag 1980
cgggtggagc ggctgaagca ggatctgctg gacaaagtgc ggcggctggg ccgggaactg 2040
ccagtcaaca ccctggacga gtcacgcac cagctgggcg gccccagcg ggtggcggag 2100
atgaccggca ggaaaggccg cgtggtgtcc aggcccgacg ggacggtggc cttcgagtcg 2160
cgggcagagc aggtctgtc catcgaccac gtgaacctca gggagaagca gcgcttcag 2220
agcggcgaga agctcgtggc catcatctcg gaggcctcca gctcgggtgt ctccctccaa 2280
gccgaccgcc gtgtccagaa ccagcggcgc cgcgtgcaca tgaccttga gctgccgtgg 2340
agcggcgacc gcgcatcca gcagttcggc cgcacccacc ggtccaacca ggtctccgcg 2400
ccagagtatg tcttctcat ctcggagctg gccggggagc gccggttcgc ctccatcgtg 2460
gccaaagcgc tggagagtct gggggccctg acccacggag accgccgcgc cacggagtcc 2520
cgtgacctca gcaagtacaa ctttgagaac aagtatggca cccgggccct gcactgtgtc 2580

ctcaccacca tcctgagcca gactgagaac aaagtgcctg tgccccaggg ataccctgga 2640
gggggtcccca ccttcttccg ggacatgaag cagggcctgc tgtctgtggg cattggtggc 2700
cgggagtgccc ggaatggctg cctggacgtg gagaaggact gttccatcac caagttcctg 2760
aaccgcatcc tggggctgga ggtgcacaag cagaacgccc tgttccagta cttctcagac 2820
accttcgacc acctcatcga gatggacaag cgggagggca aatacgacat gggcatcctg 2880
gaccttgctc ccggtatcga ggagatctac gaggagagcc agcaggtgtt cctggctccc 2940
gggcacccgc aggacgggca ggtggtcttc tacaagatca gcgtggaccg cggcctgaag 3000
tgggaggacg cctttgccaa gtcgttggcg ctgacgggcc cctatgacgg cttctacctc 3060
tcctacaagg tccgcggtaa caagcccagc tgcctgctgg cggagcagaa ccgcggccag 3120
ttcttcacgg tgtacaagcc caacatcggc cggcagagcc agctggaggc cctggacagc 3180
ctccgccgca agttccaccg ggtcaccgcg gaggaggcca aggagccctg ggagagtggc 3240
tacgctttgt cgctgacgca ctgcagccac agcgcctgga accggcactg ccggctggcg 3300
caggagggtg aggactgcct gcaggggctg cggctgcggc accactacat gctgtgcggc 3360
gcgctgctgc gcgtgtgggg ccgcatcgcc gccgtcatgg ccgacgtcag cagcagcagc 3420
tacctgcaga tcgtgcggct gaagaccaag gacaggaaga agcaagtggg catcaagatc 3480
cccgagggtc gcgtgcgccg ggtgctgcag gagctgcggc tgatggatgc ggacgtgaag 3540
cgcaggcagg cgcgcgcctt gggctgcccc gccccgccc ccccgcgccc gctggcgctg 3600
ccttgccggc ccggagaggt gctggacctc acctacagcc ccccggccga ggccttcccg 3660
ccgccccgc acttctcttt cccggcgccg ctgtccctgg acgccggccc cggcgctcgtg 3720
ccgctgggca ccccgacgc ccaggccgac cctgcggccc tcgcgcacca gggctgcgac 3780
atcaacttca aggaggtgct ggaggacatg ctgcgctcgc tgcacgcggg gccgcctcc 3840
gagggcgcg c tgggggaggg cgcgggggcg gggggcgcg cgggcggtgg tcccgagcgg 3900
cagagcgtga tccagttcag cccaccttc cccggcgccc aggtcctct ctgacacgcc 3960
tttaggcgaa acatgcccc aacacaggg accgtttctc ccctaggagc agcgggtgggg 4020
agcagggcc a aggtcccctg accactgctc agaggagccc taggccctgg ccgcagtgcc 4080
ttcagcggc gacccgggccc cccacctggt cagccctggc gggggccact caggacagct 4140
gggggcccgg gcgtggcagg gccctctctg tgcctctcct cccaagtagg aaggggctcc 4200
gggtggctgc tctgggactg ggcacccaca agggctcagt gggcccaaac ccttgaaatc 4260
cgtgaaaccg ggtggtccca agagctagaa actcaggaaa cccaggtgc tcagggcccc 4320

gcgtctcggg ggctccgtgg ggcagacccc tgctaataata tgcaattctc cctccccag 4380
cccttccctg acccctaagt tattgcccgc tcacctctcc caggccccag gccgcggagc 4440
tggcaggggtg gcgcctgcgg tttctatgta tttatagcaa gttctgatgt acatatgtaa 4500
aggacttttt taaatatatg tgccttttgc ct 4532

<210> 756

<211> 3471

<212> DNA

<213> Homo sapiens

<400> 756

ctgatgccc a tgccccctca ccagctaact gtggcttgca cctttacctg ttcccttcat 60
tttcccttct ccagaggaag aggtgctctc cacaagcctg tgaccaactg ttccctcag 120
ccggcacact ggctcctctt ctctgcctg ccacagacct ctctccttca tgggcccact 180
ggggctcttt gagcctattc tctacccctt tcattatcat gccttgcaaa caccatcatg 240
agcaaaaatc aaagctgggtg ttagactctc ttgctttcca tagctgacct tggtttccct 300
gctttctgtg atgaattcac ggtatgtgtg ggctttgcca actgttcca gcccttacca 360
ggttcccatt catactggc tctaattcac accttacaaa tcggcgcca cccaccttt 420
gcctgaaatg gcacctccta gggcaattga tggctgcagt catcaactct gatgccttct 480
cagccttctt ccgccatcac ctctcagcga cctttggcct tgatagctat gtgatcatct 540
accagacctt gcaccaggc tcagcctgat cttgccccag tggccaggcc cttgagtggg 600
actgccggga attgagtcca gcttttctgg ccatctgacc gtggccagtt agcctcttat 660
gttctgtttg cttctctata aaatggggat aataacacta cttatgtcac aaggctctca 720
tgaagattaa gtgaaattat gcacgtaaac atctcagaac aatgcctggc acagaaggga 780
cacctgtgag gttagctatt aattcatagc ctaccagac ttacccacg tctgtctccc 840
tcctcctctg ggctctggct taggctctgc cctcatgcat gccatcctgc ttggatgctg 900
ggtagctttg cacttggtct tgccttggcc tgcaaataac aaatctgagc tcaaatgagc 960
tttagcagaa aaggactttg attggctcca atagctgaat aatctgtatc caggtcaggt 1020

gaggcttcat ctctgggcttc actctgattc aaggccccctt ttctctcttg ttcttttggg 1080
ggctccatct cccaggccta tgagcaggaa caaccctcat gcttccaaga tggccccagg 1140
aactctcaag atccattttc ttggtgcaaa tatagcagaa agtgactctc tgcttctctg 1200
aagtttcaaa ctcaaatacca ggaatagtct cctgtagcag cctgccttgg gccgtgtgcc 1260
catatctgag ccagtcacta gagccagggg ttttaaggaga tcagagtcca cttctggaga 1320
ggatgagagt gaagtcagca ccacaaaac atagggacca gctgtggaga aattgtgagt 1380
actggaagga caggatagga ggaatggatg atggggagaa aaccgactaa tatgcagatg 1440
ccctttcctc caagaggcct tccctaagtc ttctccttc agtttctatt acatgaaact 1500
ctgtaactct cctctcctct ctctcttct ttttttttt ttttttttg agatggagtc 1560
ttgctcggtc gccaggctg gagtgcggtg gcatgatctc ggctcactgc aagctctgcc 1620
tcccagattc acgccattct cctgcctcag cctcccgagt agctgggact acaggcgccc 1680
gtaccatgc ccggcaattt tttttgtatt tttagtagag acggggtttc accgtgttag 1740
ccaggatggt ctcaatctcc tgatcttgtg atccgcctgc ctcagcctcc caaagtgtg 1800
ggattacagg cgtaagccac cagccccgg ccctcttcat ttctttttgc ctctctgctt 1860
ccagagcaac ataaactccc tgtgggcagg aactgggatt gttgatttcc actgcttccc 1920
cagggcctga tatctagagt cgaaagaatg cacatctcaa aactatgtcc tggttctttt 1980
tctactttct tgcatattct ttttcaggca ggagtgcagt ggacagatct caattcactg 2040
caacctctgc ctcccgggtt caagcaattc tccttctca gcctcctgag tagctgggat 2100
tacaggcatg caccaccaca ccagctaata ctttgtattt tcagtagaga tggggtttca 2160
ccatgttggg caggctggtc tcaaactcct gacctcgtga tccgccggcc tctgcctccc 2220
aaagtactgg tgcatattct ttttctgtct ttctgtctac tccctcttgc tcttcccacc 2280
cctaaactat gtagcctcaa agatcttacc tggctgactg ctgggctttc aagatagttt 2340
ctggaagaag tctctaaatc taagccttca actctcatct ctgttctgaa tttcagacct 2400
ggaattctaa ctgtccacaa tacatggctc ctcaatatat cttcctgaaa ttacaaatga 2460
ccatacggta cagggtgttac tatattacct gtaagaccac actcgggtgtc atctcctgca 2520
aactagtcct ctctgactc ctctgtttct gtgagtgtt ctgcatggc ttgaggtcat 2580
ccgtttgctt tgaaagatca cacaccagga tacatacaga gatgtgacct ggatggatgg 2640
acctttgcct cacaatcagg gtagaagcct ctggttttct ttttctttg tcctcctctg 2700
tggtgtgaca caggttcagg aggaggtacc cagacacaga agagatgctt tccctgtgca 2760

ggcttgctga cagtcttgcc caccactcct ggccctcctcc ctctacatgt ccacattcgc 2820
 tgctctgacc ctgagttgga cccagctagg aattgtgact tcagttactg gtatttcctc 2880
 tgagcctcta gtcattggta tgggctaatac tgtatatgaa aaccacttg aaagaaatcc 2940
 cagtgtgaa gaaagaattg aaacatacag attgtttctt tgctcaaggg agtgtggatt 3000
 tcagtgtctt cactgagcag aggctgaggg tgaccacctt ggatcttcct gcaggacaca 3060
 gcccagagaa actgagcctg aatttgctgc catgttttga ggacattatc cagctagtc 3120
 tctttcatct gggccgaggt gggtaatttt ccttagagtc aagtactaga aaaagttttg 3180
 cttcttctaa gagctggtag attgccctct tgtgaatgag agccatgtat gtgaccacaa 3240
 caccctttca gttgaccact aagagactga aggccaattc cggatcaact ttacagccgc 3300
 ctacggcctg ctataccacc catggcatag tttctgtggt ctgatgcttt attttttatt 3360
 gcattttact aatttatggc atgcatatca tatgagcagt ctcaaatect cccagaaca 3420
 aggtgaggaa tatattaata tttaaaataa aataaacaac atgtcagtgt g 3471

<210> 757

<211> 4681

<212> DNA

<213> Homo sapiens

<400> 757

ttgtaaaata gttaagtttt aacagtcctt cccaaacttt gtgttgatta ttcacttgct 60
 aaagagatgt gaggaatcag ccttcagttt tttggcagta gtatatattg gaagtgaaga 120
 aattggaaca cctgtttcta atttggctct catcattaaa gacaaaacca aaacactcca 180
 ggagtagctg tttatagtgc tgagccaggt agcacacaga catagtagcc taaaggctca 240
 cataattcgc atgctgaggc cagggcaggg taaaaatagc cttctgcttc tttcaaccca 300
 gtatcaggaa gcactacccc agtgattatta tttgttttgt caaggtaagt ctaaataaac 360
 aagaaaaact tcttcggaag gcatggcgaa gggagtattt taaatgaaaa tgattacaga 420
 attgaatta gcatgcatct ctttgtgtgc aacagtaatc caagaatgta tatgttacca 480
 ctacaacat ttgtttctaa tagttttttc atgttatata acataaatgt atccacaacc 540

ttaattaaga actattcttc ccccaaaatc atagtcctag tgtcaagaaa catactccag 600
tgtttattgt aaaataacaa ccacaccctc aaattgaaaa aagtgaatgt ctaggacttt 660
attacaactt ttcagaataa tctgtaatga aaactcatgc ttaaaaattt aatggaaaag 720
actgagcccc aaattttgaa tagtgattac gccttacttg aagtgctaataa aaaggtagga 780
gagtacattt gttggaataa cagaaatggg gatttcagcc taaaagtttc tgagggtaaa 840
ggatcacatg accttcagga aactctctgc ctctgttagg tgctttccta tctccccat 900
ccttccctac cccttttccc ttttcttcc tctctttttc tctcactgtc actctgtcta 960
cacacactgg catcttttga acactaaaag taagcactgt tttttaaaaa agtaattatt 1020
tgttgatca gatactttta tccaagtga ataccttcac tgagatgtgg ccaatgcaat 1080
agtttcacag taaaaacagt gcctataaga aaatagatca catactattt ttcaatgata 1140
ttaagtgtat tttgtaacta ttttcatttg gtccttgtaa catgaaataa tacatggaac 1200
ttacctttat aataaaaatg gagtgccttg gttcatcata gaggtgcatc tagtttgccc 1260
ttaatggaag tatacttgct gtgtggattg atagcacctt cttgaaatgg aggagcacag 1320
ctggcctcat ggatgtgcaa tttttgcagt cccacagggc cttgcataca gaagcacccc 1380
gagctcagtt gaatgtctgt ttgatttttt cttatttatt tttttgagac acagtccac 1440
tttgtctttt tgtcaccag gatggagttc agtggcacia acatggctca ctgtagcctc 1500
gacctccctg gctgaaggga tctcccacc tcagcctccc aagtaaccga gactacaggc 1560
atgtgccagc atgtccagct aatttttgta tttttttag agacagggtt tcaccatgtt 1620
gcccaggctg gtctcaaact cctgggctca agcgatctgc ccacctctgc ctcccaaagt 1680
gctgggatta aaggcataag ccaccatgtc caactgaaat tcttaataat taataatttt 1740
tgagcaagag gtccacactt tcattttgca ctgggttccc aaacagggtc tgggtaggaa 1800
ggatggctga ggataaaaca ggagttgctt tggcctggct gaacagttga accaatgac 1860
agagtttcat tttatgattg tgttactctg aacagatttg ctattttttt ccagctacat 1920
ttagagttcc tcatgtatat atcaccctc tttttccagt ccatctaacc tctccttttt 1980
tttgtgccta gaatcagttc tcttgcctt caaaatccct gataagtgtc catttctttt 2040
tgtatccttt gatgtagaag ccacaagaat ggctttagca gcttatttta atcttatgaa 2100
ttattcattc aggttttttt aaatgattca gatgcttca atctgttaac agtatttata 2160
aaacatgttt cagtataca acataggtga actaaaccaa agatgcaaata gccttgagg 2220
aaaagaaatt gtattataga gaatcctgag atatatcctt ttgggttggt taatttaaag 2280

cctatcacaa aacaaagaga attgtcgcac ttttaattcca acctcctgca gtacttcaca 2340
acccttagca taagattctg aaatttgtaa taggtggtac ctagtttgat gcagggtttt 2400
gcagcagttg tgcgaatgcc tctgcgcaac ggcctttcag tcagactaaa tgagaaaatc 2460
caaactgtcc tatcaaaact gaccacaaat aactgtactc tgaggcgaaa cagagcaaat 2520
gtgggtttcc tgttttcatt gtaaaacatt ccaggttctc agattgaaga gctacattca 2580
gctgatagtt gacatctgtt ccctcacacg tagtggctct caacacgggc tgcactttgg 2640
aatcacctga ggacctttcg gaatcttcgg ttgaatcatc ctggctgtcc tggatgatgt 2700
tcttatgtgc agctaggctg gagaaccact acagggtga cacctggaat gggagcttgt 2760
aacttttaca aaataataga tgtttatcat cttttgcaat ttttactttt aagtctatac 2820
taaaatgagc caaagaagtc ttaacaatga tgtatggcac aattggttgg ttgaggctat 2880
cattccatga ttacaaatag gtggttatgt ggggtggttt tgcacttgtg gcaattggac 2940
tgcaatttgg ccttaaaatg acacaattcc tcgttctcag atggagagga attgccttga 3000
aatttgcattg taccagacta agtgccagta tatatatgac tgatattttc gtgactcata 3060
gaagggtgtcc atggtataga gtttatgcct acatctctat ctttattttg ggcacacatg 3120
agcttttggt aattatttct ttgtacttgt tagaatctgt ttttgaaaaa aaaaaaaaaa 3180
acttttgctt tgatttgtgg tggattcacc ttcttaaaat aataaattta gaggatatta 3240
ggaatgacat tcaaaacaaa tatagtgaga ggtgattttt taaaaatttt tgttcctggt 3300
ttccaaatta tgtttacttt gatttgatta tatgttggtta tctcccaaat ataggttaac 3360
ttagctattt aaatggatc ttttgacatt taaaaagaat taagtacctg tcaaatcttg 3420
cattgagggt gcagttgaat aagataaaag cttaggatgt caaaaaataa tatagagaaa 3480
tattataaga ttttatgatt attgaagttt ttgatgcaaa aggaaaatat gctgaatagt 3540
tcttccaaaa aatattattt ccctcaatat tttatttgta gccatgtaat ttaaagagaa 3600
cagaaaaataa ctgcaatcaa aagtatgggt taatgtcaat caaagtggca caacagaatt 3660
gataagatct ttataacaat caattggctg atattaaaat attgatttta attgatcttt 3720
tcaattaaaa tctttagggc ctgtaactca taaaatcagc atccaccaca atatatggtc 3780
attattgggt tgtaagcata gatcaccatt gactcctacc tggagagaca tgtctatttc 3840
taaaaatcca gtagtttctt tgcattctca gtagtacacg ttgtatatat atatatgtaa 3900
caaatttgggt agttttcagt atgtgtgatg tcctttgggg gttgtttatc ttgctgggtcc 3960
ataggagggg tacactaccc caagaatcaa gacatctgag ttctagttct agttctagct 4020

ctgccactga agagccacct tacctggggc aagttagcca ttgtctccca gtcattgttta 4080
 ccacccatga aaggactcgt cggtttgatg tttccattaa gctcaatgag taactctaat 4140
 agttactctt gaatctggat tgaaaaacac catgcatctg atgagataat tcataaatgt 4200
 tgcccctttt ttaaatgata caaccctaaa agtgactgaa ttgccaagt gcttgaacat 4260
 ggcagaggta gttactctta ttttgcagtt tgtgcactta aaaattccta cagtgtattgt 4320
 tactttactg gggaaaaaag atgaggtgaa acttcctccc aaggaattaa aatatctgta 4380
 gaagccatgg cttgctttta taatgtggaa atcatttgat ttgctgtaat tcacgcagat 4440
 ccctcctttt gtcaggggga aatgatttgc atcatgttct tttttcataa tgcttttact 4500
 tcctgtttgg atcagttgta tgtaaataga catttttggt actttggctg tgcccgttag 4560
 aaattctatc ttccataaag tatttctccc attgagtcta atgatgtata ctttgcctag 4620
 gtctttccaa aattaaattt atgtaaattg ctattttata taaaatatga ttaaaataag 4680
 t 4681

<210> 758

<211> 3225

<212> DNA

<213> Homo sapiens

<400> 758

ttataaaatc tacatatctt cctcttttct gggatatcta ctacagtttg agaatccagc 60
 tttgttggtg tctcctttat taagtttagt agcagcctta atgcttgcta agtgccttca 120
 gctgaatgtg aagaaaggaa gttttgtagc taaaataata aaagtgatta atttttactt 180
 ggtgtgtact ctgacaataa cattgaatat tataatgaag atgtttgtcc cacacaaaga 240
 aaatgggcac atgctgaaat tccttgaagt aaaatttgga ctaaataatga ccaagaattt 300
 tacaatgaat tggctcctct gtcaagaatc cctgcaggca ccatctcaag attttttctt 360
 gcgattgaca cagtcttctt tattaccttt ctacattcta gtgttaatta tttgttttct 420
 ttctatgttg caagttactt ttaggaggat taatggtaag tccctgaagg aaactgttac 480
 tcttgaagat ggacgaattg gagaaagacc agaaataatt tatcatgtaa ttcacactat 540

tttattgggt tctcttgcaa tggttataga aggcttgaag tacatctgga ttccttatgt 600
gtgcatgtta gcagcatttg gtgtatgttc tcccgaactt tggatgacac ttttcaagtg 660
gcttcgatta agaactgtac acccaatatt gttggctctt attctgagca tggccgtgcc 720
tactataata ggtctcagct tatggaaaga gttttttccc agattaatga cagaattaat 780
ggaactacag gaattctatg acccagatac agtgggaactt atgacctgga taaaaaggca 840
agctccagtt gcagctgtgt ttgcagggag tccacagtta atgggtgcga ttaaattatg 900
cactggatgg atggtgacaa gtttgcctct ttacaatgat gatgatcttc tcaagagaaa 960
tgaaaatatac taccaaactt attcaaagcg atctgctgag gatatttata aaatactgac 1020
atcttacaaa gctaattacc taattgtaga ggatgctatc tgcaatgagg tgggacccat 1080
gagaggctgt agggttaaag atttattaga cattgcaaat ggccacatgg tttgtgaaga 1140
aggtgacaag ctaacctact caaaatatgg gcgattttgt catgagggtca aaattaacta 1200
ttctccatat gtgaattatt tcactagagt atactggaac agatcctact ttgtatataa 1260
aatcaacact gtgatatacct tccagtcttg aaaaataaca gagccttcat ttcaaagact 1320
acctgaagta aatgcagtt ttcttctacc tactcggtgt cttttgcaga tcagagtatg 1380
gacatttgaa atattgctgc ttctttcccc cttctgctgt taactggatc cagagttctg 1440
tgggaaatag aagatcaagc attactgtcc tttgattaaa tgtgatatac accactctgc 1500
aatattccag acaggtgtct tccttaccgt tacatgggtct ttaacacttt tactgattgc 1560
aatattttcc ccataaaatc ttcatctat tataatattg atcttgaatt tgaatatgtg 1620
caaggtcaga tacatttctc aaacataaca tttaataaat aatgtgatat aattatttaa 1680
tagaaagaat aattccgacc ttcaagcaag tttctgaagg tattttatga tgtataacaa 1740
ctgaagtttt acaataaaaa ctaattttaa tgtagctga agatatgtgg catttaaatt 1800
aaaatggaaa ttatataaag gaaagtgatt tttaaggata tacataaaga tatatttaga 1860
attttcatga tactgttctc ctcatctact gcttatgtta agtgagaact ttcttagtaa 1920
tacataatgc atgatgttac tgcatcttct aaatgactag taagtgatta gttttttcac 1980
ttatgcctat taatttgata ccaatttaac catgataaaa caataaccgt taacatatat 2040
tttgttaaat ggacatttaa aagaatgttg ttcaggtttt ttttttaaact actgatattg 2100
ggcatacaat ctattcacat gttttctact gaagtactaa gtaaaaaaat taaatcatta 2160
tcagaataaa aatatgtgtt ctaaaattag caacaatttc tggggataga tgcagatgtt 2220
gttaaacgta cctctgcata cagatatatt ataaacaca agcaatgtta tttatgaaac 2280

tgtgatgcag tcttcaacat caagaaaaaa tgacaactat aataaaattt acaacacagt 2340
 ttcacagtct aaatgctatg ttcctttaag tattttcata tttttaatca tttattaaga 2400
 ggaaattgtg aaaagttaat ttggccttat agagagattc aggatagatg tagcctatag 2460
 atgtgtcatt ttaataagtt gggatacatg tttagttttt ccttatattc ctgttcagtg 2520
 aacagatttt cataattctc acttggttaa gtgctgcaaa aattgcattt tcagtactct 2580
 aaattactac attagaagag agcatttctc cattgtcttt attttctgtt atatatgtgt 2640
 tgtaaaagta cactacatta gaaggagagct tttccgttgt ctttattttc tgttatacat 2700
 gtgttggtta agtacatgca ttcttagact aactctcaga tgctttgctc ttttgagagct 2760
 gaagaattgt ttgatgggtga tgtcatatat ctgatagatt agtttcagtg gttctcattt 2820
 cacttttata cgtaatttct taactatatt aagatagttg caggcagtgt acctcagggt 2880
 gactctgtac atctgaatag tgagtcacta gtattttgct tcaagccttc tgaaaatata 2940
 accatagtta cctaagcaca cagtgaatag tcacatggta gtacttgtga ttagagcatg 3000
 taaaacaatg taattgaaaa gtcagcttcc atattttgta ggggaaatag aacaccctac 3060
 tttttatcta gtgtgaaata tttaatcgaa tttttgttga tttatattat gttacctgtg 3120
 ctgaattagg tttgggactt gtgttttggt tgacatatta gtaagttgct tttgcttctt 3180
 tctgtcaact ttttttttaa ataaaattga tctggaaaaa ttgtt 3225

<210> 759

<211> 3254

<212> DNA

<213> Homo sapiens

<400> 759

gtgctagtat agggagggac cgatgggtggg cagggcccta gaactcccaa gagtatatgc 60
 cctttgtctt ttgctaccag gatgggtagg gaaggacat caggtggggg tagggctggg 120
 catatctgag ctcagaccct ccttgggcgg gtcttgctgt ggctgctgtg ggggctgggg 180
 gtgagattcc taggtcactg gaattgtgta tgtaggagga ttacggctgc ctctgctgag 240
 tcatgcaggt tgtcaggga gccggggaaa gccggcagtc acaggcctca cccagctccc 300

acacaaaccg aagggtctggt ctactccca ccatgcccc ctcaacaacc cccagaccgt 360
aagcgatatg aggctgtctg cctcccagct gcataagaaa agggcttggt tcttcctag 420
cctgtggagt ctgcacatca gatttgcacc ctccccgag ttctggccag gaggcttctc 480
accccgttca aactgttaca aagttcagct agagatttcc ttctctctgt gtagttttat 540
cccctgcttc tcttcattg gatccctgtg gttccaggca ggaacggcct gccaggggag 600
cccgcgagct cccagggcct ttctgtctgt tcctctaccc cagtatttcg cttggctctc 660
caaattgact cagctccaga ttctcacct attcctacct cttggccttc aatgtgtggc 720
ttctgcttgc acccgtgacc ctgtgctatg actggcaggt cggcagtatt cctctggtag 780
agaccatatg ggacatgcgg aacttagcca ccatctttct ggcggttggt atggccttat 840
tgagcctgca ctgcttagca gcctttaaga gactggagca caaggagggt ttagtcggct 900
tgttgttctt ggtgttcccg ttcattccag ccagcaacct cttcttcagg gtgggttttg 960
tggtggcgga gagagtcctt tacatgccta gcatgggcta ctgcatcctt tttgtgcatg 1020
gactgagcaa gctctgcact tggctgaatc gatgtggggc caccaccctg attgtgtcca 1080
ctgtgttgct gctgttgctt ttctcttgga aaactgtgaa acagaatgaa atttggctgt 1140
caagagagtc cctattcagg tctggagttc aaactctgcc ccacaatgcc aaggttact 1200
acaactatgc caatttctg aaggaccaag gtcggaacaa ggaagcgatc taccactaca 1260
gaacagctct caagttgtat ccacgccatg caagtgcgct caacaacctt ggaacactga 1320
cgagagacac agcagaggca aagatgtact atcagagggc tctccagctc catccacagc 1380
ataaccgggc tcttttcaat ctggggaatc tcctcaagtc ccaggagaaa aaggaagaag 1440
ctatcacctt actgaaggat tccatcaaat atggtccaga gtttgcagat gcatattcaa 1500
gcttagcttc gttattggct gagcaggagc gggttaaaga agctgaagaa atataccaaa 1560
ctggaataaa gaactgtcca gacagctcag atttacacaa caactatggg gttttcttag 1620
ttgatactgg cttaccagaa aaggcagtgg ccattacca gcaggccatc aaacttagcc 1680
ccagtcatca cgtggccatg gtgaacttgg gaagactcta caggtcactg ggagagaaca 1740
gcatggctga agaatggtac aagcgcgccc tgcaggtggc acacaaagct gagatattgt 1800
cacctttggg agcactgtat tacaacactg gccgatacga agaggctttg cagatttacc 1860
aggaagctgc agcacttcag cttctcaga gggagctccg cttggcactg gctcaggttt 1920
tggccgtgat gggtcagaca aaagaagctg aaaagatgac caatcacatt gtgtcagagg 1980
agaccggatg ccttgaatgc tatcgctct tgtcagccat ctatagcaag caggagaacc 2040

acgacaaggc acttgatgct atagacaagg ctctccagct gaaaccaaag gacccaaaag 2100
tcattttctga actttttttc acaaaaaggaa accaattaag agagcagaac cttctcgaca 2160
aagctttttga gagctataga gtggctgtgc aactaaaccc agaccaagca caggcctgga 2220
tgaacatggg tggcatccaa cacatcaagg gaaaatatgt gtctgcaaga gcttattatg 2280
agagagcctt acagctgggt ccagacagca aactgctgaa ggaaaatctt gccaaattgg 2340
atcgccctaga aaaacgatta caagaagttc gagaaaagga tcaaacatag caccaccgtc 2400
tgacccaacc tcataggata atgtggtgcc tctgaaaggg gagtgatgga agccttgctt 2460
tcacatcagc aggggcacaa ctaatgagat tttctctcat tccgagttca ggggtgacaca 2520
ttttgggaca tctgctggta gcccagtgct gaaggacttg cttttccatg aagaagacga 2580
aaacagcaaa caagggaag aaggtctgag aggggaaggag aatgatattt acacatttta 2640
cagatttttg tttggtttaa ctccagattt ctcttgatat atctctgtgc ttttgagacc 2700
tggagatcta attctgttta gacatttttt gtcccagaaa tacagaagct tgaaatgcta 2760
tgaaggcaga gcttctattc tttatgggat gaaatatattc aaaagaggat aaatcctctg 2820
tggttaagcca tttggaaaat cctaccaaga attggcttat ttaattttcc agaaccagga 2880
atgagtatct aatagctttt gtagaacctt ccagaatatg tggggaaaaa gggctattgc 2940
taagtgagct ttatctaata tcctcctaag agttttacta gtgctttttt gaggaattac 3000
aggggaagctc ctggaattgt acatggatat ctttatccct aggggggaaat caaggagctg 3060
ggcacccta attctttatg gaagtgttta aaactatttt aattttatta caagtattac 3120
tagagtagtg gttctactct aagatttcaa aagtgcattt aaaatcatac atgttcccgc 3180
ctgcaaatat attgttattt tgggtggagaa aaaaatagta tattctacat aaaaaattaa 3240
agatattaac taag 3254

<210> 760

<211> 1949

<212> DNA

<213> Homo sapiens

<400> 760

tccctccgct ccagttcgtc ggggcgggcg cggcggcggc ggcggcggcg gcggcgaagg 60
aggagcgcgg ccggggcgat gcggcgctac ctgcgcgtcg tgggtgctgtg tgtggcctgc 120
ggctttctgct cgctccttta cgctttcagc cagctcgccg tgtccctgga agaaggaacg 180
ggcggcgggtg gcgggaagcc gcaggccgcg gtggcttcct ggctcgcggg cggcggacgc 240
ggcgccgtga gaggcgccgg cgtcgcgggc cccgcagcgc atcccggcgt gtcggacagg 300
tacagtctga aaatacagcc tgttgagaaa atgcatctag ctgtagtgc ctgtggtgaa 360
agactggaag aaactatgac catgttgaag tcagctatca ttttcagcat caaacctctt 420
caattccata tttttgctga agatcagcta catcatagct ttaaaggcag acttgacaac 480
tggtcatttc tacaacatt taattatacg ttatacccca taacctttcc aagtgagaat 540
gcagcagagt ggaaaaaact ctttaaacca tgtgcttcgc agagattgtt cttgccgtta 600
atcctgaaag aagttgactc actattgtat gtcgacactg atatcctttt tttacgacca 660
gttgatgata tttggtcttt actaaagaaa ttttaattcca cacaaattgc tgcaatggca 720
ccagaacatg aggaacctcg aataggatgg tataatcgct ttgctaggca tccatattat 780
ggaaaaactg gagtaaactc tggagttatg ttgatgaaca tgactcgaat gagaaggaag 840
tatttcaaga atgatatgac aactgtacga ctacaatggg gagatatact tatgccattg 900
cttaaaaaat acaaactaaa catcacatgg ggtgatcaag atctattgaa tatcgtgttt 960
tttcataatc cagaaagcct ttttgttttt ccgtgtcaat ggaattatcg accagatcat 1020
tgtatatatg gaagcaattg ccaagaagca gaagaaggag gaatctttat tcttcatggg 1080
aacagagggtg tttaccatga cgataagcaa ccagcattta gagctgttta tgaagcactg 1140
agaaattgtt cttttgaaga tgacaacatc cgttccttat taaaaccttt agaactggaa 1200
ctacaaaaaa cagtgcatac atactgtgga aaaatttaca aaatatttat caaacaacta 1260
gcaaaaagtg taagagatcg ttatgccaga tcaccaaagg aaaagtgatt cttggtgact 1320
gcttaatcaa atggatgaaa acaaagaatc agaagataag tgtgaaggaa tcgtcttgga 1380
tgaagtattc aggaaggaat tactcatctc cagaataatt tttttttcc taaagaagtt 1440
aagtaagcag tactttcagg taatgaagaa taagttaaaa tcttgggcct caacattgaa 1500
cattttttat ctctgatgtt ttgtaatgtt acttgctatc attccagtat tgatgaaaat 1560
actattgaat gggtttaacc tgcagacttc tgttgactca tactctcaag agtggtaggg 1620
gtgtgtagat ggagaaaatg tacctcaaac agtgccaaca ctcaagactg tgagtagagc 1680
aataatttta tgtcagcact aacctcactt taaaagtgtg agaaaaaagt ttgtttacag 1740

gagcagaaac aggtctgttg tttctgaaga aatgtgatgt aactgatgta accattgaca 1800
atctatgtgt gcctttatac atttcatctc tgttttaaaa tatttttatg acaatcatgt 1860
ttaaaattat ttttagatta caagtaagct gcatgttaaa aattgagctg tgtaaggtag 1920
aggaaaaata gtgaaaactt tgggatttt 1949

<210> 761

<211> 2116

<212> DNA

<213> Homo sapiens

<400> 761

acactgacta aagatattgg aagagtgaag atcagagaat tttaagtctg aaatttggca 60
tcaactgccct gaacaatata accttagttg gcataaacta ctcatacaga caaaggcatt 120
atccatcaca ataagtaact ttttgtcttt atttcaaccg gacaatcgtg attagaaaag 180
ctcctgtgac aaaattcaag aaaacctgac ataaatgaac aacaatacaa catgtattca 240
accatctatg atctcttcca tggctttacc aatcatttac atcctccttt gtattgttgg 300
tgtttttgga aacactctct ctcaatggat atttttaaca aaaataggta aaaaaacatc 360
aacgcacatc tacctgtcac accttgtgac tgcaaaactta cttgtgtgca gtgccatgcc 420
tttcatgagt atctatttcc tgaaagggtt ccaatgggaa tatcaatctg ctcaatgcag 480
agtgggtcaat tttctgggaa ctctatccat gcatgcaagt atgtttgtca gtctcttaat 540
tttaagttgg attgccataa gccgctatgc taccttaatg caaaaggatt cctcgcaaga 600
gactacttca tgctatgaga aaatatTTTA tggccattta ctgaaaaaat ttcgccagcc 660
caactttgct agaaaactat gcatttacat atggggagtt gtactgggca taatcattcc 720
agttaccgta tactactcag tcatagaggc tacagaagga gaagagagcc tatgctacaa 780
tcggcagatg gaactaggag ccatgatctc tcagattgca ggtctcattg gaaccacatt 840
tattggattt tccttttttag tagtactaac atcatactac tcttttgtaa gccatctgag 900
aaaaataaga acctgtacgt ccattatgga gaaagatttg acttacagtt ctgtgaaaag 960
acatcttttg gtcattccaga ttctactaat agtttgcttc cttccttata gtatttttaa 1020

acccatTTTT tatgttctac accaaagaga taactgtcag caattgaatt atttaataga 1080
 aacaaaaaac attctcacct gtcttgcttc ggccagaagt agcacagacc ccattatatt 1140
 tcttttatta gacaaaacat tcaagaagac actatataat ctctttacaa agtctaattc 1200
 agcacatatg caatcatatg gttgactttt gaatggaaaa ccccaacaata ttaagaaaag 1260
 cattcatgtg actttattag ggacactaaa ctacatcatt aacatgtcac agcttggttg 1320
 acaataatca ccaagaaaat ctctttgggtt tttaaaaata aataaacata tattcataaa 1380
 actcaaaaaa cagttatact gaacgttgag atggcagaaa ctttcagaag caaaaattaa 1440
 gcatattgaa aggatccac tcatatgaaa ctaacaggct gttttctgtt taaactcaac 1500
 tgtgagtgtc tctgttcaga acacgttatt tcatgactag gataaagaag caaatgggtt 1560
 atgactgtc tgctttctgg tagttagaat acaagggtca atctatggct agtgtttatt 1620
 ggtaatttta aaatctttaa aaataagtag ctgggcacag tggcttacgc ctgtaatccc 1680
 agcactttgg gaggctgagg caggagaatc gcttgagccc gggacggagg ttgcagtgag 1740
 cggagatcgt gccactgcac tacagcctgg gaggcagagc gagactctgt ctcataaaac 1800
 aaaacaaaaa aataaaaata agtaaaaaaa taaataagaa atatcctcat tcacatctta 1860
 cctaaatgca tgaataatac agtgaaaaaa atccaagggtt ttataaacat attattttatt 1920
 tgaaattatc tggctcatgt tattggggag aagcaatatt cattgaccat atttttaaag 1980
 cagatgatac ttataaaaat gcttaaatat ttggattagg ctttgtcaaa gtaaaaagct 2040
 atgtcattat atgcccattc tcatcacatt gagcatattt tcttctgtat tcaatataaa 2100
 taatgttatt agtgac 2116

<210> 762

<211> 1880

<212> DNA

<213> Homo sapiens

<400> 762

attagacagc aactgctga ctgttttcag ttgtttctgt aacagcagaa agtgcactca 60
 ctaggagtag tcagaattca aaatgctgaa gagaaagcca tccaatgttt cagagaagga 120

gaaacatcaa aaaccaaagc gaagcagcag ttttgggaat ttcgatcgtt ttcggaataa 180
ttctttatca aaaccagatg attcaactga ggcacatgaa ggagatccca caaatggaag 240
tggagaacaa agtaaaactt caaataatgg aggcggtttg ggtaaaaaaa tgagagctat 300
ttcatggaca atgaagaaaa aagtgggtaa aaagtacatc aaagcccttt ctgaggaaaa 360
ggatgaggaa gatggagaga atgcccaccc atatggaaac agtgaccctg tgattgggac 420
ccacacagag aaggtgtccc tcaaagccag tgactccatg gatagtctct acagtggaca 480
gagctcatca agtggcataa caagctgttc agatggtaca agtaaccggg acagctttcg 540
actggatgac gatggcccct attcaggacc attctgtggc cgtgccagag tgcatacggg 600
tttcacgcca agtccttatg acactgactc cctcaaaatc aagaaaggag acatcataga 660
cattatttgc aaaacaccaa tggggatgtg gacagggatg ttgaacaata aagtgggaaa 720
cttcaaattc atttatgtgg atgtcatctc agaagaggaa gcagccccc aaaaaataaa 780
ggcaaaccga aggagtaaca gcaaaaaatc caagactctg caggagtcc tagagaggat 840
tcatctgcag gaatacacct caacactttt gctcaatggg tatgagactc tagaagattt 900
aaaagatata aaagagagtc acctcattga attaaatatt gaaaaccag atgacagaag 960
aaggttacta tcagctgctg aaaacttcct tgaagaagaa attattcaag agcaagaaaa 1020
tgaacctgag cccctatcct tgagctcaga catctcctta aataagtcac agttagatga 1080
ctgccaagg gactctgggt gctatatctc atcaggaaat tcagataatg gcaaagagga 1140
tctggagtct gaaaatctgt ctgacatggg acataagatt attatcacag agccaagtga 1200
ctgaacacgc attcccaact atatatctac agatgcattc cattttaact cttcttgagc 1260
taaaacgtca aataggagag gaagataaga taaatatttg taaataaaac ctaaagttta 1320
aatgttttaa tctgaataat tgtacataaa attttgtatc tctaacttc caaattactg 1380
tcaataaaat atatatttat tattttaaat gctatgtgtt aatatttcac ttgcttgtat 1440
tagaaaggca aaatgtaaga ctttgggatg tgtgacatat gctttatttg gctttatttt 1500
acaagtacag tatctgcaaa aaacaaagta accttttttc atacctgcca gttttgaatt 1560
tatatatgtt attgaacaaa tagtaataga ggattcgctg ttgaaacaag ttgtccaagc 1620
aatgtttatat tcatttttat acttattggg aaagtgtgag ttaatatggg acacatttta 1680
tcctgatcca cagtggagtt ttagtaatta tattttgttg atttcttcat tttgttctct 1740
ggataaaaag tagagataat gtgtagtcac ttctgattta gtgaaaccaa ttgtaataat 1800
tgtggaaatg ttttgtcttt aagtgtaaat attttaaaat ttgacatacc ctaatgttaa 1860

taataaaaag aactatttgc

1880

<210> 763

<211> 3204

<212> DNA

<213> Homo sapiens

<400> 763

atgtttat	ttgaagcact	tctgcaaaac	agattttctg	tgggcttccc	ggtgtcaggg	60
ccgaccttca	gacagacctt	tcctgagagg	cagctgcagg	agtcacatgg	gagaagccac	120
ctccaagcag	agtctcctga	gaagctgctg	aaaggcctgc	cacatcgaga	aaagcagctc	180
ctaaaataag	gggaagcagg	acgggctcca	gcagagccgg	ggttggggag	cacttcctc	240
cggaggcact	ggccgcctcc	agtctgtctc	cagacgccac	tctcacctgc	acgtctcatc	300
tcatcaggga	gcttctctgc	caaaatctgg	cctaaagagg	gtgggagggg	aggggggtga	360
gcttccagga	tggggcgtgg	agctctcctg	ctgtggaagt	atcttcaacg	aacactccac	420
ggttctgaca	gagattgcca	ccaccttccc	ccgactgtcc	tgagctcatc	tggatctttc	480
tgtctctgaa	aagatgctga	aatcccagag	tcacttccta	gcctggttgt	aaattgtgtc	540
ttcctgtgaa	tttgttaaaa	caccctagga	aagacagttt	caaatacag	gcagccttgt	600
gtgggttatgc	ctgatttctg	ggataatcct	ctgaggtttt	cctggtgggc	atgcatcaca	660
cagaaggtcc	acatggaacc	cgccctttga	gaccaggcat	cttgatgcag	aaaactcatg	720
ccactttcct	cagaatcgca	ctcacaacaa	cgcagaggga	cgtgaaggga	tggacgtcct	780
tccacacgcc	agccgatgca	gagttggggg	tggcatcaca	cagaccgggc	tctgtcctcc	840
aggctcggcc	actcctagct	gtgcgacttt	gggcagggaa	acagaaggca	ggaaaggagc	900
tctcttgcac	ttgcttctta	attgtcttca	gccaacaat	tcttcatatt	tcggggaggc	960
acattctggt	ctccagaaac	agctagaaga	cacagcagct	acacacgcag	ccacactaaa	1020
tctgtttggg	tcatcatcca	tggaaataat	cgtagagatc	tcttagcctc	ttctagcaaa	1080
aggagtgtctc	gcccgccttc	tcaggatgta	agttaacgag	caaggacttg	gctccagagc	1140
ctcggacagg	ccctagcaca	cagccagtcc	gcagcagatg	tctgctgaat	gaacggtgaa	1200

tgaacaaacg tgctgagaaa cacacgcggg gtctgaaaag tgcgctcgag cctggaaccc 1260
gaggccccgc tgacgagctg gccactcacg caaaacatac tggcatcgag gtcagaagac 1320
aacacacgca catcagaacg gggaggcctt tctctgaagg gccacagggc acagcgacca 1380
ggctctgaca gaggggactg tgcagcacgg agcagcaaac tgagaagcca gcagcggcgg 1440
ctgggggagc acacagcagg acgggtgggg gcggacacag gctccgccac cgacagggga 1500
ccctcgtgtg actctctgtg accctgagca agtctctcca cctcccttgc ctcggtttcc 1560
agaagttaa atggagatgg cctcagaggc tgctcgccgg gtggctgtga tgagcaccgg 1620
aaaagccacc acacaccggt ggteccccgt tatgctggcg cctcacgcca cactgcttta 1680
tcaccgattg caagtctgca gccacgcaca taggaacaac ggcagggcac tgaatcctgc 1740
aggataaaca gatccaagga ggcacccctg ccagaggagg cactccaggc accccaccag 1800
aaccaggggt tgtgaggaac cgaagggccg tgcgggcaat ggagctggag caacagactc 1860
tcaggaagg ttaaggagaa atggcagact ggacggaggg aggtgcacct gctgaactac 1920
gatgcgtcta gagaagaggc atcaatgggg gctgagcctc atcccgtta tgcgaccgca 1980
gtgacgtggg cctccatagg tactgagccg tctgagatga ctcctacaca agagcaaagg 2040
ccaacatcag aaaggacggc caaggggcac tgaccaggca cacgctcagc ctcactgcgg 2100
cctcttctc gctctgcacc tgggagcctg ccttcaagga acggaagctg ccctccaatc 2160
aagctgtgct cctgcatctc cgcagagcga gggcttcctt tagagatatc cagacacatg 2220
cattttcttt tccttttctt tttttttttt tgagatggag tctcactctg tcgccaggct 2280
ggagtgcagt agcatgacct cagctcactc actgcaacct ccgcttctg ggttcaagcg 2340
attcttctgc ctcagcctcc caagtagctg ggactacagg tacacgccac catgcccagc 2400
taatttttgt atttttagta gagacggttt caccatgttg gccaggatag tctcgatctc 2460
ttgacctcat gatccgctg cctcagactc ccaaagtgtt gggattacag gtgtgagcca 2520
ctgcgccag ccacgtttt ctttaggatg ctgggaggtg cagagccgtg aggaggtgga 2580
gcgaatgcca cagatgttac agctccgtgc tctgtggcgc aggcctttgt tttgatgaca 2640
aataccaggg tttgggtacc actgtgaagg aaacggaaga tctccgtgct gtgtgcaggt 2700
tcctgggggt ggctctgaa cctctcacat tcccccttg ctgcacgtct gcaatttcat 2760
ctcagaacca agcctcctcc acccctacca atccggatga gctaaggagg ctttgctggg 2820
gtgcacatcg aacacgaagg ggacccggtg cccgtcttcc ctctgccgt ggggggacct 2880
taatgagagg cgcccgggca taaggacccc cgtgcagcac cgtgcgccct ggcgtggcgc 2940

gcacgggaac gctgaggtgg ctgtgctcgg gcaggcaggg gtgatctgct aggtggcggc 3000
ggccccccgt ttccgccaat cactcacctc cccctcgctc ggcgatctct cgggttttgc 3060
ttccacctct tcattttctaa atcagcgtct agtgcctcgt tactcatctc agcagtgact 3120
ggcagacgtt aatgaattac tgattttcac ctttaccagc caatattgta tatttatgtt 3180
ggaaagaaag gtatTTTTTg aatc 3204

<210> 764

<211> 2279

<212> DNA

<213> Homo sapiens

<400> 764

tggagagtgc ctgcattcct gcccatccgg gtactatgga caccgagccc cagatatgaa 60
cagatgtgca agatgcagaa tagaaaactg tgattcttgc tttagcaaag acttttgtac 120
caagtgcaaa gtaggctttt atttgcatag aggccgttgc tttgatgaat gtccagatgg 180
ttttgcacca ttagaagaaa ccatggaatg tgtggaagga tgtgaagttg gtcattggag 240
cgaatgggga acttgtagca gaaataatcg cacatgtgga tttaaatggg gtcttggaac 300
cagaacacgg caaattgtta aaaagccagt gaaagacaca atactgtgtc caaccattgc 360
tgaatccagg agatgcaaga tgacaatgag gcattgtcca ggagggaaga gaacaccaaa 420
ggcgaaggag aagaggaaca agaaaaagaa aaggaagctg atagaaaggg cccaggagca 480
acacagcgtc ttcctagcta cagacagagc taaccaataa aacaagagat ccggtagatt 540
tttaggggtt tttgtttttg caaatgtgca caaagctact ctccactcct gcacactggt 600
gtgcagcctt tgtgctgctc tgcccagtat ctgttcccag taacatgggtg aaaggaagca 660
ccaccagcat ggcccctgtg ttattttatgc tttgatttga atctggagac tgtgaaggca 720
ggagtaagtg cacagcccgt gacttggctc agtgtgtgct gagagaatcc gtccccggca 780
ccatggacat gctagagggtg tgaggctgca gaacaccgct ggaggacgga cttgtgccta 840
tttatgtgaa agaagatgct tggcaggcaa tgcgctactc actcgtgacc tttatttctc 900
acattgtgca ttttcaagga tatgtttgtg tggatatctg cttagtgtta ccacatggta 960

ttctcagcat gttaccttca cactgttgtg cgatgaaact gcttttagct gaggatatgc 1020
tctggaaatt cctgctcagt ttcactgcag ccctaatatg tacatatact gcaggagcta 1080
catataaagc tcttatttac tgtatattta tgctttcttg tgggtaacaa gtcataacctg 1140
attaatatga tgccactttg tttctagtgg ttcctaacc attgtctgat aaatgacttt 1200
tctagtttgg ggaattgaca cttgttttgt tgcctcttga aacttttttt ttttcccctc 1260
attgtgggct tatttctcat tgtaagggtg ggataaacta gtttttgtat atagagtcaa 1320
atgaccagtg tcaaagagtt tgcatattgg gtagaccttc tccactccac atgtcccaca 1380
catatagata aagcagcagg cggcatctgg caatcagaag cccaaactgc ctttgagtct 1440
aagatgtgat gactttgatg aaacacaact gaaaacatga gggactatat ccagtcactt 1500
gtagccagtt tcacaggcca gctacagaat tgtccaaaca aacattattt ctgactgcaa 1560
ttttttttcc cccaaattta aagcaatccc tggttttaaa tgacaaggca cctaccaatg 1620
ttcttgggtc actgaagaag ctactaccat gagcctgtgc atagaatttt aggagataaa 1680
aggatgaatt tctgtgactg ccagtcagat cttaacaggt ttctgttgag ccagaatctg 1740
tttcagatcc aagatggaga ggaacactat ggaaacttcc caggtgactt tcagagcagt 1800
tgtttcaaac acatcattgt ctttttaggg gaaccagttt ttagaagggt gtgaattggc 1860
tttttcacaa agcatgatta tcttcctggc tgatccagga gaaaattaga acagaaaaat 1920
aatggttgtg gattttgaaa caaagcaagg taaagccttt tttttttcac cttgcattgg 1980
caaaactacc tcttcagtgt ttttaacttt tgattcaaaa gcactttacc aataaggata 2040
aatatcatat acatcgttat gaaaatattg ctatgagata ataagccaca tatgaatgtt 2100
gtatacaact ttagggttta catttaatcc tgaagtgtta cctcctttca tgtctattta 2160
cactattttc ccatttacta agtggggagg gggctctcctt atatagtgtc tcatcgttaa 2220
taagtcaata cctgttgttc ctgggatgtt cttttttgtg cattaaaaac ttcaaaatt 2279

<210> 765

<211> 2118

<212> DNA

<213> Homo sapiens

<400> 765

aacaaaaagg	cctagttata	gacctaata	aaccatcttt	gccacagtac	ggcacaccaa	60
ctagagctct	caccactatt	cctggctggg	agacctcaca	ggcccatgtc	caccactttc	120
ctcaactgcc	ctctggccat	gctgctcadc	tgggcctagt	acagaagcag	tgtggctttg	180
gggccccatcc	tgatttctat	gaaatactga	tcagaaaact	tttaatttct	ttgcaggaaa	240
ttgaaaaatt	ggagcacaaa	ttgaaccaag	cccctgagaa	gtggcagcag	ctgtgggaaa	300
gggtaaccgt	ggaccttaaa	gaagaaccaa	gaacagatcg	ctcccaaaga	cacctgtcga	360
gatccccagg	aatttgtgtct	accaacctac	cttcctatca	gaagaggtct	ctgctacatc	420
tcccagacag	cagcatgggg	gaggaacaga	attccagcat	ctcccatcc	aatggagtgg	480
agcgaagagc	agccacgctc	tatagccagt	atacatccaa	gaatgatgaa	gacaggtcct	540
ttgagggaac	actttataaa	agaggggctt	tgctgaaagg	ttggaagccc	cgttggtttg	600
ttttggatgt	aacaaaacat	cagctgcgct	actatgactc	aggtgaggac	acaagctgta	660
aaggccacat	tgatctggct	gaagtagaaa	tggtcatccc	tgctggcccc	agcatgggag	720
cccaaagca	cacaagtgc	aaggctttct	ttgatctcaa	gaccagcaaa	cgtgtgtata	780
acttctgcgc	ccaggatgga	cagagtgcgc	agcaatggat	ggacaagatc	cagagttgta	840
tctctgatgc	ctgatgccc	tggtcaaccc	acgcagaaga	aacagaagaa	ctcatgctgc	900
cagatagata	gaaaaagaag	catggatcct	tgaggagctg	acaacaagtt	atcccagggc	960
ctgaggttct	cctgcccagt	cccctcttgc	aggggttgct	atatctactt	aacctgaata	1020
ggtgtttcac	acaggtctgg	tcaacagccc	catgcactcc	ctgtatcttg	cactaaattt	1080
ttctaacagg	gtcttagtgg	ttaatgatca	gaagatgtct	cctgagccaa	ctgtgaacct	1140
caccagggca	aatggctac	cacctacttg	ggctcttctt	catgaaagct	atagatcctt	1200
ttttgttctc	tgaggtcata	atttcctcgg	agacctgttt	aacaagcaaa	aatcaaaacc	1260
ctccaagatt	gtctcatatt	ctacctggac	taggtttcct	atgagagaca	tctacttgta	1320
atgcctgacc	tttgagatgc	tcagttctct	ggtgctgcca	aaagatgttt	ccatgggtccg	1380
tgctctgcca	gtgggggttca	caacaagaga	cgtcattgtt	cagtagcagg	caaagaggga	1440
gcacacagca	ttattctgat	ggaaaaagat	tatccaggga	atggtacaac	aatgaccagc	1500
ccaatgcagg	aaaacactac	ttccaaaaca	ctgaattctc	tagaccagag	gtgctctgag	1560
gatccagggc	cttgtgttct	tatgtatctt	ctgcttcctg	acagcttctt	tttcaaaata	1620
acatgcaaaa	aaagctgaat	gcactaactc	acaaaacaaa	cacttgcaact	gaattcccaa	1680

tgaagtgaag atgttggaag gacagaggcc agctatttag gaccatacgc acctgtgaca 1740
 agggctgtgt tgaccacagt cacactgtgg catgactgga tacccaaact acacttctac 1800
 acatgaaaag taagaactgt ctttagattt tctttacttt gataacttgt gattgttttag 1860
 ctttaagaccc aagaaatgct gtttgctcat ggtaaacaga aacagcatct tcgctacaac 1920
 cactgacacc agctggcgct ataggttagct agatcattgc atttgttttg aaatgttaat 1980
 atgttaaata ctaaactaat atttcaaaaa tgtgtatata tgatttctat atccttgttt 2040
 ttcagatagc ctgcttataa tttaatataa attaactgat gcattcataa gatttcaata 2100
 atgaaatggt tccctttt 2118

<210> 766

<211> 2688

<212> DNA

<213> Homo sapiens

<400> 766

aagttgcaaa ccttagcggg ggggtctcaag gggaattcag ctgccttgct cagaatgagg 60
 caggggtgct cctgcagaag gcatcttttag tgatccaaga ttactgggtg tctgtggaca 120
 gactggcaac ctgctcagcc tcctgtggta accgggggggt tcagcagccc cgcttgagggt 180
 gcctgctgaa cagcacggag gtcaaccctg cccactgcgc aggggaagggt cgccctgcgg 240
 tgcagcccat cgcgtgcaac cggagagact gcccttctcg gtggatgggtg acctcctggt 300
 ctgcctgtac ccggagctgt gggggagggtg tccagaccgc cagggtgacc tgtcaaaagc 360
 tgaaagcctc tgggatctcc acccctgtgt ccaatgacat gtgcaccag gtcgccaagc 420
 ggcctgtgga caccaggcc tgtaaccagc agctgtgtgt ggagtgggccc ttctccagct 480
 ggggccagtg caatgggcct tgcatcgggc ctcacctagc tgtgcaacac agacaagtct 540
 tctgccagac acgggatggc atcaccttac catcagagca gtgcagtgt cttccgaggc 600
 ctgtgagcac ccagaactgc tggtcagagg cctgcagtgt aactggaga gtcagcctgt 660
 ggaccctgtg cacagctacc tgtggcaact acggcttcca gtcccggcgt gtggagtgtg 720
 tgcatgcccg caccaacaag gcagtgcctg agcacctgtg ctctggggg ccccggcctg 780

ccaactggca gcgctgcaac atcaccccat gtgaaaacat ggagtgcaga gacaccacca 840
ggtactgcga gaaggtgaaa cagctgaaac tctgccaaact cagccagttt aaatctcgct 900
gctgtggaac ttgtggcaaa gcgtgaagat aggggtgtggg gaaaaactct accctggcca 960
cacgaaggac tcacgcaacc acctcggaca gaacctaagc tttcttcatt ttattttattt 1020
atttccccct ccccaactcca cacacaccct tccaacctcc tccacctcca ctttcaagca 1080
taaggacgtc cgcgtgtttt ctctttcagt tagctggagg acaggatgtt gggaaaggaa 1140
aggacagatg tctaaaggag gttgcagagc aggccaggca gacagtgggg gctcccttga 1200
agagcttcct ccttcccaaa cctgggtctc aaagacctag aaagaggcag gcacagcccc 1260
tgcggacagc agggagccag aaggtttgta gcctattggg gcaaacattg ggcaaattcc 1320
tgtgtctttc ctagaagcgc actatcaca acacaggagt gttttgctcc tttgtctcct 1380
cttccccatc tatgtccctt tagtcacagt taggacaaat ggggagggga caccatgctg 1440
aggcagaaac tagcccagaa ctactcagt tcttctagt ggtgagtgc gagagagaag 1500
aactcagatc accagtaggg agaggtaaaa aagcaaaca agcaggctct aaggcacaca 1560
acattgcaga aaatgaggaa gggaggggag ggaagggaca gaagcaaaaa ggagcctgtg 1620
gtgttcccca gtggggcagg gtgagcaggg gcttccaggc tgcattgaggc tcatggacca 1680
gctctgatcc catgcatgtg cgcattgctc gagccctgct gccacaaca gagcactgag 1740
ctgcgtggga gtccccactt cccaggtat cagagtcaac gtcctgcctg tgcagctgca 1800
gcaaagccag tgagaggtgg gtctcgccat gcagtaaggc caccctggca cctctttatc 1860
taaaccgaa gtcccctagc cccgcactaa ctaactgctg ctgtgggcca gggccatttt 1920
gagcatgaat ggcccagggt ttttgccttc taggaccttt gctgctccac cgaagggcca 1980
gggactatgg ttaacttata aacatcaacc cattaactag tcaactgtgc agagagtatc 2040
tgtcaggctg tcaggctgtc aggttgtagc aacctcttca ttccagagct agcccaggga 2100
ccgggggtggg acaatgggtt tatgcgtgtc cacagtacac cctccctctc ccagcctcca 2160
ccccagggtc tgcaggctcct ccggcatgta gtatttatct agcaaggcgg ggtggtggag 2220
gcagcaccct ggcaaagcag ctcacacact gcagccacac tcatcagctg tggtagggcg 2280
gctggagcaa agtcaaagtc atgcagcaaa atgaaaactc tgggactctt cggcaaaatc 2340
ctcattaagc cgagcagctt tggccaagta atttttgcct ccttccctcg cgtggcctga 2400
gtttaggagc aagggtggcc agagtccctt acccacagat aagcctcccc tcatgaaatg 2460
ccactcacc cgggctacca ttgacatcag ggctgcattt ccagccagcc tggaagtaaa 2520

atttgagagg aagacaatat taatctgtgt cccacctag tgagctgtgg acaggtttaa 2580
gttgggtctc cttcttcttc accacaaaaa caggctctaa gaaatcatgt tactaaaaaa 2640
tcagtgtaaa gtctgtttta aataaaaaag aatgttttct atgtctgt 2688

<210> 767

<211> 2859

<212> DNA

<213> Homo sapiens

<400> 767

ctctgggcgg ctgctgccgc tgccgctgct gctgctgcgg gggtcgggcg gcggccaggg 60
gatttgggca ggcaccgtgg atccccggga aggggacgag ttgacagatg tgcgtgagga 120
ggtctctggt cggcctcacc ttttgtacct gctacctggc ttcttacctc acgaacaagt 180
atgtgctgtc tgtcttgaat tttacctacc ctacattatt ccaaggatct catgttcttg 240
tgtggcttcc tgcttcagtg ctgtttgtgg gtataatcta tgctgggtcc agagcattgt 300
ccagactggc cattcctgtg tttctcactt tgcataatgt agctgaagtt atcatctgtg 360
ggtaccagaa gtgttttcag aaagagaaaa catctcctgc aaagatctgt aggttgcacc 420
ttgaaagaac aagacaaaac caaacttcaa gactatcctc ctgtttaaaa ggagactagc 480
aggtgtcaaa gagaggcggg aaagctcatg atacctgatg taatcagtgc cctcctcctc 540
ctggccgcag caggatgcct tcccttcaat gactcccagg tgatctcttc agcgtcctgg 600
acttcccatt cctgtacttc tacagattcc atggtagctg ctgtgccagt ggatttttgg 660
gattctttct catgttcagt acagtgaagc taaaaaacct tctggcccca gggcagtgtg 720
cagcctggat tttctttgct aagataatca cagctggcct atcaatattg ctgtttgatg 780
cgatcctgac cagtgcacc acgggatgcc tcctgctcgg tgcgcttga gaggccttgc 840
tggttttctc agagcggaag agctcctgaa caagacggtc aagagaaaga ctcacaggct 900
gctgcgggag aacagcttgt acacctgtgt acgagcccct ggtctcatag ctccctgttg 960
gatgtgtcag aaagaggaat gcaaggacag tgaggccagg tgggcagtgc catcacctc 1020
accaagtga atgtggtggt ggctgatgag gccgaggccc tgggtgcttca aggagcacc 1080

tttctggggg tctgcaggtc actgcagagg agcgggtctgt tacatcttcc catttggaga 1140
acctctctca accgtgctgt agctggttct gcagaaacag gaagtacagg atttcatggg 1200
ctggctctgc tcgcctcgac tgagcttcac acctctggat gccacatgct ctctcccaaa 1260
cactgctttc agtgcaaggt agtgggccta aggggtttgg ttgtctttt ttttttcat 1320
ttttaaaatt ttaaattttt atttattatt attttttaga gacaaggcct cgctctatcg 1380
cctaggctga agcacagtgg tgcgatcaca gctcgtaca gccttgacct cctaggatca 1440
agccatcctc ctgcctcagc atccacagta gctgatgtgc accaccagac ccgtctcatt 1500
ttttctatth ttattattht agagatgggg atctactgt gttggccagg ctggtctcaa 1560
actcctgggc tcaagcaatc ctcccacctt ggccctcaaag tattgagatt acaggcatga 1620
gccactgcac ccggccttht tcattthttt ttttaaattg acagacgtaa cagtgcgcat 1680
ttatcacgca caacacaatg ctttgggaat ggttaaactt agtcacaaa tgcattacct 1740
cacacggttg tcattthttg ggtgaggctt ggttgatgtt tttgtttcat tcatgttttt 1800
acatccttgg agtctcctct gggtcctgct tttctttgct gtcatgctgg cttgcctaag 1860
gcccaccgcc acctgcgtac gagcatttht aactctagag tgagtacag cttttttatg 1920
gttgggtgta ctattthttt cctgcctcta aacttctcgt ggtccttata aacttgctcag 1980
gatgtgtgtt gcgttgaatt ctgcatgtcc tttttttgcc caccctcagg ttaagctggg 2040
actaacttat cccagagga aacagggttt atgagcactg acagatgtct tccctgggca 2100
aaaaaaaaaa aaatagtata tgtatacaca cacacataca catttatatt tatatttctt 2160
aaagctthta gtccctthta ttccctgata tctcagagat ttcaaactat tgaacactga 2220
agtatattth tcaggccaga tgaaaaattg tattaaaacc ctattcctgg tcaggcgcag 2280
tggtcacgc ctataatccc agcactthtg gaggccgaag taagcagatc acctgaggtc 2340
gggagttcaa gacaaacctg gccaacatgg tgaaacctg tctctactaa aactacaaaa 2400
aaattagcct gatgtggtgt tgtgtgcctg tagtcccagc tacttaggag gctgaggtag 2460
gagaattgct tgaacctggg aggcggagggt tgcagtgagc caaaattacg cactgcact 2520
ccagcctggg caacagagcg agacagtctc aaaaacaaca gcaacaaca aaacctatt 2580
ccttgcttht gtaggagtca aaataaatga acttctthtt tctthtttht attattatac 2640
tttaagttct ggggtacacg tgcagaatgt gcaggthttg tacataggta tgcacgtgcc 2700
atggtggtth gctgcacca tcaacctgtc acctacatta ggtatttccc ctaatgttat 2760
ccctccccta gccctccatc ccctgacagg ccctggtgtg tgatgttccc ctccctatgt 2820

ccatgtgttc tcattgctcc aaaataaatg aatttacac

2859

<210> 768

<211> 2394

<212> DNA

<213> Homo sapiens

<400> 768

cttcttccccg gggctcttcg cgctctgcac ctgggcgctg cgccgctccc agcccggatg 60
gagccgcacc gactgctga tgatcagcac caggtaccgg cgccgccgag acgccccccg 120
aggccccggg cgctgcccac cgcaccccac ccggccgcgg ggcccagggc ggaaaagggg 180
ggcggcagga agcccggggg ctgctccctc cgcgctccgg cggcccagat ttccgaagcc 240
cctccgcgtc ctcccctggc gggagcgggg ccggggcggg cgggaatggc cgatgagcct 300
ccggagccccg ctcccacat ctgcctgcgg ctggggagag tcaggccgaa gggccggggc 360
gggcccgggct ccctgcggtc ctcgaccgg actgagcgcg cgcgctgttc tcctctccgc 420
ccgcgctagg ctggtttctt cggcgcacgc cgtgctggcc accggctcgg ggatcgtcat 480
cattcgctcc tgcgacgac tgatcaccgg caggcactgg cttgcccggg aatatgtgtg 540
gtttctgatt ccatacatga tctatgactc gtacgccatg tacctctgtg aatggtgccg 600
aaccagagac cagaaccgtg cgccctccct cactcttcga aacttcctaa gtcgaaaccg 660
cctcatgac acacatcatg cggtcattct ctttgtcctt gtgccagtcg cacagaggct 720
ccggggagac cttggggact tctttgtcgg ctgcatcttc acggcagaac tgagcactcc 780
gtttgtgtcg ctgggcaggg ttctgattca gctaaagcag cagcacacc ttctgtacaa 840
ggtgaatgga atcctcacgc tggccacctt cctttcctgc cggatccttc tcttcccctt 900
catgtactgg tcctatggcc gccagcaggg actaagcctg ctccaagtac cttcagcat 960
ccattctac tgcaacgtgg ccaatgcctt cctcgtagct cctcagatct actggttctg 1020
tctgctgtgc aggaaggcag tccggctctt tgacactccc caagccaaa aggatggcta 1080
aatgctcctg ggagtcaggc gcagcctcac accagctgcc tcctccactc agcattccat 1140
ggaccaaatt gtgccctggg tagcctcaga ctttgggtat tgataagccg atggatttga 1200

gtttttctaa agaattattca tattacctcc ttctttctaac ttgccctatt tgcaaacgca 1260
cttttgtagt aacaactatt gggtcctgtc agacctccac ggacagcaaa gtgggttttaa 1320
tgcaagccca aggatccttc ttaaggtctt atctcaagag ctctgggagg tggaagcatg 1380
gggtgggatc ggtggaccag ggtggtaagt gtctgcacat ctgcctgtcc ctgtatcagc 1440
ggctaccac cttccaaacc actcaggaca gtacctgtgg cactgggccc gcagaagcaa 1500
gggatgactt ggttcttgga agtaatgtcg tcttgtagaca ttggcctggg acaatcattg 1560
tgggtaggta gttattgac gtttactaga taaccattg gttctttgcc tcatcctctc 1620
atccatgggt cagagttgaa ttcttatgtc tatagacttc caatcagaag tctcactggt 1680
ggggctgggg gtgggggcag gcaggaggca tggatgggaa cctgagtagg tagtgtggcc 1740
aagagatcag cacaaccttt gcaggctgac ttgctaagtc tgacagtgc aaacttgtga 1800
gcttactgca gtcagtcaca gaggctgttc tttttcacac accccttcat gcccggttt 1860
ccccatatcc acatgcagag ggcgagctca taaaactaca gggaagcgtg aaatgatggc 1920
tttggtagct gtttactggg taacccact gtgacactgt cttttcatg tgatgtggaa 1980
acctacttct gtcctccaaa ccatgaaatg tgtcatctag actgcagagt acttgagtgc 2040
tttgcctccc gatatgccag agcttggtgtg ccaaagccca ttcctgtgtg tccgtcctgc 2100
catttagcca cagaaggctg cggagtgagg cggcagctag cctggccagt ggctgtcccg 2160
tggaaccgaca cctgcgcccc cttctgcaag caggattttc tggtgccaac actcattcat 2220
cattcccgat caactaggat gaatttaaga ctgtgctacc atgtgttctc aagtggtagt 2280
ttaaaaagtg gatttttaaa gtgcctttca attgtctgtg aacgtctaaa ggactgattt 2340
gtctcatttt gactgttgag tctttaatgg gtgccattta aaaaacaaaa tgct 2394

<210> 769

<211> 2432

<212> DNA

<213> Homo sapiens

<400> 769

tgtaaccagc gtgcagtttt ctccacatgg aaacttattg gcgtctgcct cagagacag 60

aaccgtgaga ctctggattc ctgataagag aggaaaattc tcagaattta aagctcatac 120
agctccagtt cgaagtgtag acttttcagc tgatggccag tttctagcta cagcttctga 180
agacaaatcc ataaaagtat ggagcatgta tcgccagcgc ttcctgtatt cttgtatcg 240
acatacacac tgggtacgct gtgccaaatt ttcacccgat ggaagactaa ttgtgtcatg 300
tagtgaggat aaaactatta aaatttggga taccacaaat aagcaatgtg ttaataactt 360
ctcagattcc gttagggacc tgtctttact gtttcatttt caaaagggtg agagctattt 420
gcatcaggag gtgcagacac acaggtctta ttatggagga ctaactttga tgaattgcat 480
tgtaaaggtc ttaccaaag aaatctcaaa agattacatt ttgattcacc accacatctt 540
cttgatatct acccaagaac accacatccc catgaggaaa aagttgagac tgtagaaatt 600
aatccaaagc ttgaggtaat cgatttgcag atctctactc cccctgttat ggatatactt 660
tcttttgatt ctaccacaac aacagaaacc agtggttaga ctctgccaga caagggtgaa 720
gaggcctgtg gatatttctt gaacccttcc ttaatgtcac cagaatgttt gccacaacc 780
acgaaaaaga aaacagaaga catgagtgac ctcccctgtg aaagtcaaag gagcatacct 840
ctcgctgtga ctgatgcttt agagcatatt atggaacaac tcaatgtttt gacacagact 900
gtttcaatct tggagcagcg actgactttg acagaggata agctgaaaga ctgccttgaa 960
aatcagcaaa agcttttcag tgctgtccaa cagaaaagct gaataaaaaa ttcattttca 1020
tttgttgggc agaggcccaa taaatgaaca aatgtacata cactcaggaa ggtagtacia 1080
gatactccat acaacacaac catgtgctat ttatcatggc atttcttaa agggtgagca 1140
acagaacaaa aggcagaaaa ggcataccta aggactaatt taaacacata tcaatgtgaa 1200
ggactaattt aaattactat catttatgat tgcagtaata aagtgataag cattcaagca 1260
actctgtatt tccccatat tattttaaat gtccattttc atttataggc caaatcctgc 1320
caggaaagta accagatctc tggatttcac tgtaagtca tttcagattg accatattca 1380
gacagtcattg gggtgaaata attcacttac ctccaaaata gcatcctata tgccaataat 1440
gagttattga tctgactagt tgtatgtctt tctgttcaaa atagaaatta tcctttctta 1500
ctaattgcctt gaaagaatga acaataaaaa attcccagac cacagaattt ccacagcaag 1560
aatacactta ttttaattaa caatagcaca gatatagcat agggcagtggt gttttttagt 1620
taatttatgg cgtactttgt ttatccattg gccaacctga aggaaatgaa actcacctat 1680
ctttctatca cagatgaatg tgctagatga atgatttggg ttgtatctga tcatggttca 1740
caaaaattat gttagtgtgt tttcagtatg ctaaaaagtc agagtgatac aaaagtgata 1800

tttaaaaata tacacacatg tatgtacaca tgcttcagaa atattgttgc ttaggggtgat 1860
 ttgggcagct aaatagtaag tacttttttaa aatttttgca tcatcatctt cctatttaat 1920
 gaattgtgat ttaaaacaaa atgaaaataa gccagggtatt ctaaaagatc ctggatacaa 1980
 attaagaatt ttgctttatt ttaaaccaaa ttgagattaa attgaagaaa agcaagcaaa 2040
 ttaatttcag cttgattatc aacctgtatc aagaacaaaa atgggaggag gtgtccacat 2100
 ttatggtgtg tataggtaac atggggaaaa tgctattctg tgttttggaa aagaagaaat 2160
 agtgccgtcc tatttatttc tatatttaga aatttttctc aaagaaattt caattgtatc 2220
 tatgagatgg gtttctaagt atcttattgt gtgttataag tgccttttaa tatcatacta 2280
 agtgtgagct tctggacatt ttcaagagct tacaaaaact aagtggcatt gtatttttat 2340
 aacccattg agaagactaa gtaagaaatg aaatgtccta tcaattttat tttgtcatgc 2400
 ttcaaacaat aaagacattt ctgctttaaa ag 2432

<210> 770

<211> 2976

<212> DNA

<213> Homo sapiens

<400> 770

tgtcccccttc ctcggacccc tgggcccaga cccctgtgct tgagttgccc ctcctgggtt 60
 cttaaattggt gctgtgccat gcaaataagg cagagagagt tcttgtgttc ccctctggga 120
 gtctgcttac caagagttca gagaccaca ttcggttcct gcagtgttcc cagaggcagg 180
 gatggcagct ggctgggtat ggccagggtg ggaggaagga gtcctcatat aagcctggcg 240
 ggaggaatgg aaaattggga acacagaaag gcccaggaa tggtcagtgt cacaccagac 300
 ttgggctggt tctgtgggtc atgtggccac cattgactgc ccatgtgcgg tggagccagt 360
 tccgtgccag gcgctggggg tgcacgggag aggggctggc tctgtgccag gcgctggggg 420
 tgcacgggag aggggctggc tctgtgccag gcgctggggg tgcacgggag aggggctggc 480
 tctgtgccag gcgctgtggg tgcacgggag aggggctggc tctgtgccag gactggggg 540
 tgcacgggag aggggccggc ttctgggcag cagggactgt ccatgggcag gcagtgcaca 600

gtgaggtgcg tgggccgccc aagagtaggt ctaagctgtg aactctccca aggggtgagaa 660
ggagttcgga ggaggaagcg gtggggagga gcagggtttt gaaagacaaa gggggcagct 720
gtgcagggac ccgaggggtga gggtcctggc tcatcccagg aaacactgat ggggttaatg 780
tcaggagtgg ggggcgaagg gagctgggcc gagaaccaag aggtgagaca agacaagggg 840
cgagtccagg tgaggaggag aaggacgggc agagcctcat tgggccgtgt ccagagcttc 900
gcagcactgg gagcccagct gctacattaa acaggctgga cgcgatggga tgctggccga 960
gaacgcttga tttttttctc cctgctgtcc cttcagactc ttttgatgac ctagttcttt 1020
ttccgctcct ggataaaatc ccctgcaagc cccttaattt ctcttgtcat taaaaaaaaa 1080
aaagagagag agagagcaag agagagcacg tcagagcact ttgcctcaa aatagtgtca 1140
tttcagtga tcagaactgc caagtttatt gacagttaac acttcccatc acttcacctg 1200
accctggttg ggaggactgt ggggatccct gtttcccttg agctctgccc ccacccatca 1260
gctagtccctg tctccccacc agcttgtctg ccaacagtga ggaggggatt tgggacaggg 1320
ggtcggtgct tttgggtccc caccaatgct ctaacctggg ggggtctgag agcacctgac 1380
tgagaatttc ctctgaggac cccccattgc agttccctga tggagacacc tgccactgca 1440
gccccaggtg ggcccgcggc catgagccgt gcataggcct ctctgtgggg ctccctctgc 1500
ggctctcttg ggctgagtcc tgtagtagtt tcctagggca ctgcagtcca acaagtgcca 1560
tgaaatggga ggggttaaac aacagaaagt tgttctgtta tagtcggagg ctggaagcct 1620
taaatcaagg tgctggcagg gttgtacccg ccccgaggct ggggagaacc ctctcttgcc 1680
tcttcctggc acctgggtggg gccatcagcc ctccacgttc cttggctggc atatgcttca 1740
tcgcagggtg gcctctgtcg gcccatgggtg ttcttcctgt gtgtctctgt accctcacct 1800
ggcattctct tctcacctc tttctcttct tataaggaca ccagccacac tggacaaagg 1860
cccaccccaa ttgagtgtga cctcatctta acttggttac atctgcagag acgctacttg 1920
caagtaaggt cacactcgca ggtaccaggt taagacttca tatctttctg cacagttcaa 1980
cccgtgacgt tccctcaaga cctccttttt ttttttgaga tggagtctca ctctgttgcc 2040
caggctggag tgcaatggca tgatcttggc tcaactgcaac ttctgcctcc caggttcaag 2100
tgattctcct gcctcagcct cccaagtagc tggggttaca ggcatgtgcc atcacgcctg 2160
gctaattttt tttgtatttt tagtagaggt ggggtttcac catgttgacc aggcttgtct 2220
cgaactcctg acctccggtg atctgcccgc cttggcctcc caaagtgcta ggattacagg 2280
cgtgagccac tgcgcccggg ccctcaagac atcatgacac tggctctctc ccatgagatc 2340

cacacctgga ccttcatcca accccaggtc ccagcccat ccctggctgt caccgcgct 2400
agagggcaga acacccttct ccaagacagc cttctctgct cttttccct cggacccttt 2460
gtacctttga agggagggtt gcaaagctgg ttgagaacc cccttgaca tcctgcagag 2520
gaggtcaggc acttttcttt gaaaggtgga gattcttggt gcctgttggt ttttctaaac 2580
ctatggagtg ttcagctgga actgaggcag agagtcccat ttgaggatcc cgtctgtgtt 2640
acagtgggtg tgctatttcc aaggaagtgc tgctttcttt ttctttttt aattttgtga 2700
attttcaagt gctgttttgt tggaagacag tgcaacgaac tgagactaat ggacagtgtc 2760
atcactcagc ttactgggct gaggcgtctg ttgagaggtg gcaccggggc tgcagagggc 2820
ggctgggggt ccgtcgtgtc ggggtgtcact tcacctctg tttggccgct cgatgaggtc 2880
tcgtgttgag atattgtgtg ccacaacccc cacagtcttc acctccgtgt gtgatgaaac 2940
ttcccgtgga cagccaataa aatgacgtcc tctgtt 2976

<210> 771

<211> 2811

<212> DNA

<213> Homo sapiens

<400> 771

tatattatcc tttggtgcca agagtggatg aagaaacttt cggaagccta aactagtgga 60
tacatgaaac ttaggcaaatt tattacacta catgggtgtg agagataatg aatattatct 120
actaggtatc agcaaacaga tatccaaggt gatcaattca ggacacttcc actgaagata 180
tgttaagtgt acgttcagct ggagtgtcat cgtaattgtg tgccttctca gttattgggc 240
aagttaaagg gcatgatgaa tgtttgtagt ataatgggtg aaatcctttt gatttggtgc 300
atgaaagaca tgtgggatca tgtagcacct gttttgacat tgattctcac gtgtatgagt 360
tgctcctctg tttttagatc acatttgtcc tcactactca gcatatccac attgatattg 420
acacggtttt attttgggtt tcgacacatg acaaatcata ccatggttga aattgtaagg 480
gtatatttca tggagcctgt gttccctttt ttcagtgtac ttctgtcacc ttctgggtccc 540
cagagacaaa gtagaagcca tcaaagcctc cactaatata ggcaggagga cagaggttga 600

tgctaacacc gtgtgaatgt atggataact ttatcatatt tacatgtgag tgattatgta 660
tcccttttgc ttttcagtgt cttctcggaa aaaagcagcc ttgaaggcta caagtgatga 720
gaaagattct ttttcaaata taaccagaga aagaaaggat ggagagacat ctaggacagg 780
tatcagcaaa caggtgtcca atgtgatcaa ttcaggactc ttccactgaa gagatgtgaa 840
gttgtcttct cagaaaccac cagccttgaa ggctacaagt gacgaggaag attctgtttt 900
gaatatagcc agagaaaaaa aggatggaga aaaatctaga acagtgtctt cagagcaacc 960
accaggcttg aaggctacaa gagacgagaa agattctctt ttgaatatag ccagaggaaa 1020
aaagtatgga gaaaaaacta ggagagtgtc ttctcggaaa aaagcagcct tgaaggctac 1080
aagtgatgag aaagattctt tttcaaata aaccagagaa agaaaggatg gagaaacatc 1140
taggacaggt atcagcaaac aggtgtccaa tgtgatcaat tcaggactct tccactgaag 1200
agatgtgaag ttgtcttctc agaaaccacc agccttgaag gctacaggtg acgaggaaga 1260
ttctgttttg aatatagcca gagaaaaaaa ggatggagaa aaatctagaa cagtgtcttc 1320
tgagaaacca tcaggcttga aggctacaag tgacgagaaa gattctgttt tgaatatagc 1380
cagaggaaaa aagcatggag aaaaaactat gagagtgtct tctcataaac aaccagcctt 1440
gaaggctaca agtgacaagg aaaattctgt tccgaatatg gccacagaaa caaaggatga 1500
acaaatatct gggacagtgt cttctcagaa acaaccagcc ttgaaggcta caagtgacaa 1560
gaaagattct gtttcgaata taccacaga aataaaggat ggacaacaat ctggaacagt 1620
gtcttctcag aaacaaccgg cctggaaggc tacaagtgtc aagaaagatt ctgtttcga 1680
tatagccaca gagataaagg atggacaaat acgtgggaca gtgtcttctc agagacaacc 1740
agccttgaag gctacaggtg atgagaaaga ttctgtttcg aatatagcca gagaaataaa 1800
ggatggagaa aaatctggga cagtgtctcc tcagaaacaa tcggcccaga aggttatatt 1860
taaaaagaaa gtttctcttt tgaatatgtc cacaagaata acgagcggtt ggaaatctgg 1920
aacagagtat cctgagaatc tgcccacctt gaaggctaca attgaaaata aaaattctgt 1980
tctgaatata gccacaaaa tgaaagatgt acaaacatcc acaccagaac aagacttaga 2040
aatggcatca gagggagagc aaaagaggct tgaagaatat gaaaataacc agccacaggt 2100
gaaaaaccaa atacattcta gggatgacct tgatgacata attcagtcac ctcaaacagt 2160
ctcagaggac ggtgactcgc tttgctgtaa ttgtaagaat gtcattattac tcattgatca 2220
acatgaaatg aagtgtaaag attgtgttca cctattgaaa attaaaaaga cttttgttt 2280
atgtaaaaga ttaacagaac ttaaagataa tcaactgtgag caacttagag taaaaattcg 2340

aaaactgaaa aataaggcta gtgtactaca aaagagacta tctgaaaaag aagaaataaa 2400
atcgcagtta aagcatgaaa cacttgaatt ggaaaaagaa ctctgtagtt tgagatttgc 2460
catacagcaa gaaaaaaaga aaagaagaaa tgttgaagag gtgcaccaa aagttaggga 2520
aaagttaaga atcacagaag agcaatatag gatagaagct gatgtgacaa aaccaattaa 2580
accggctctc aaatcagcgg aggtggaatt gaagacagga ggaaataatt caaatcaggt 2640
ttctgaaact gatgaaaaag aagacctgct gcatgaaaac cgcttgatgc aagatgaaat 2700
tgccaggctc aggctggaaa aagacacaat aaaaaaccaa aacctggaaa agaaatactt 2760
aaaagacttt gaaattgtga aaagaaagca tgaagacctt caaaaggctc t 2811

<210> 772

<211> 2997

<212> DNA

<213> Homo sapiens

<400> 772

actaagcccc atcgcttat ttctggggta catccagacc tggcagggat cctgccacac 60
tgtgcagcaa accagcatgt aggctgggta ggagagcaag agatagagcc atcagagtga 120
tggggcttct tcacagtaag aacatcggag cttagaatga gagtctcttt caaaaaacag 180
gcattgttca tcttacgcta aacatcattg tctgcctggc tacagtcacc aaaacaaaac 240
agaaatgcaa aattatgcat ctcccatag tcctgaggct tcctttgcca atggaagggc 300
tagcaatgca ttctccctct catgaaagtt aaatttccag agacttcctt agattgctca 360
aaatgttaaa gatatgtcca tgtctgcaat tcgccagttt cagggtcaagg cctactttca 420
tcaatattgc tcccagaagt tttctgacac cagaatgcca ttcttggtcc cagctctatt 480
tttaggccac cacgataact tctttggttt ctcaactgag catgcaacca tttatttaaa 540
agactgtcat taatgagtag atgttttcgc gggctcgtgtg atgtgctttc catttactag 600
tgttgctgtg gctaagtaca atcaaattga accaccaacc cttgggtttg tagtaatata 660
actatttatt ttctagtgt agatgctttc agattagaat tggcatttgc actgattttt 720
ttatgtagat ttatataaat atatagatac atatatattt gcttgaagaa tcaccaagca 780

aattggtgag aggggtctttt ccaatagaat ttacacctcc atttgtttgtg ttgtcttgca 840
cttcccaatg ttgatgtctc tatggctcca atgaactggg gtattttgca gcaaacttga 900
tgacttgtat ggaaatggca tgaaagttaac ccagattaca tctggtgcaa atgcactcgg 960
agcctggggc cagactgggtg ctaacactgc aaactttgtc cagagctctc tccaacctga 1020
aggcttgctg ggggtgcaat gtcaccttca cacatgctgg gccctttcag aaaagtgcc 1080
gatcgtgtaa ctggtgctat ttttcatgct ctggtacaat gtgtagcacc acgggggtct 1140
cagctttacc aaaatcaaaa ttccatttgt cagctaagtg cagaggcatt tgttttttgc 1200
tctcctccca cagaattgtc ggccatttat ttgcaggcct tttgcgggat ttcttggcta 1260
tttatttgca ggcctttttt cccagcccca aattcttggg ttggctctgt ctgcttaaag 1320
agcctgtctt caciaagctg cactcgggtg cctctgtgcg ctgtcttaga tcctactgcc 1380
ggcccttcag gactccgagc caggaaagaa ctctccaacc tctggctcga gactctactt 1440
tttttctcat tcttttctt actctctcc tccttctact tccgactaat tccatctctt 1500
ttttttttt gttctctcc ttttctatt cctcctccc accatctctg agttgttgac 1560
tttctcctat aatccttctc tattcccttt ctctttttgt ccacctctcc tttagtctct 1620
gtttctctgc cttctttatt cctcttctgt cctttctcct ctctcaaact ctctgatcat 1680
cttctcccgt acatccctgt attgattttt ctgtcctcta aagggtcat ggctgattca 1740
gacagcaagt ccatgcactg gactaatgac acaaatactt taggtcgccg tttcacctac 1800
tcagcccaga aagtaaagct gagcgtgagg ccctgacctg gagcctgctc cagcccgcct 1860
cccggagcca gcctgcaccg ttgccctggc agcgatgatg catgtgctgt gggccctgcc 1920
ggcgcctgag tgcctctgcc tgaacactgc tcctaagcga gccactccc agcactaccg 1980
catggctctg aggacatttt ctttcaataa aggcagactc tggccccaat tattctgata 2040
gcaaacctct tcctctcat tgaagccatg ccatcacctt ggtttggaga gagacatttt 2100
tttccattc ataagctttc tttttccat ttttatgtga agccccctct gcttttcagc 2160
tggtgattgc tctggtgaga ctgaatggac ttgctgggtga aatgaaatct cttctttcct 2220
gtcttgggcc tgcctaaatt cctacaaata tatttaagcc aaggactcag gctaattcct 2280
aagttgatca cattaatttg ttactcctag agggaaaaag atcaattccc ttgaagcatg 2340
tggagtacct cctgtgacag ctgacttgcc aggggactcc ctacagaatt ctgtgatata 2400
cattttactt ctgtgtatgt atggtatata tggatatgtat accatgtaca cacgttacat 2460
tgagtatgaa tgactgtggt tggaaacaca cacacacact caagtctgta aatatacttc 2520

ctcactgaaa cctgtgcttt ggaaatcatt tcttgtacag ctgtgcagtt tcttgtaaca 2580
gctgaggaca aagctaagac aggcggacaa tttagacaaa gatcatctaa agagtatagt 2640
atctccctag caactcatga ggacagacaa ccaagtggca aggttgactc ccaatgggat 2700
ggcagacttt tcttctctcc tttttgagtt tgtgtttcct aagtgtttct taacttctga 2760
gtgcaccagg ctgtaccctg tagatccttt caatatgaca gttttgtgct tctctctgac 2820
aggatgtttc tccaccgagc tgtagcacag gatgggaggg aggtgggaat actccttgcc 2880
taggctggag tttacagaga cactgcacag cttacactcc tgtaagtgt aaatattcaa 2940
cacttccatt ccatttgtgt aaaaaataaa gcacacacga ttataaaatc aagatgt 2997

<210> 773

<211> 2529

<212> DNA

<213> Homo sapiens

<400> 773

atTTTTtaggc caccacgata acttcttttg tttctcaact gagcatgcaa ccatttattt 60
aaaagactgt cattaatgag tagatgtttt cgcgggtcgt gtgatgtgct ttccatttac 120
tagtgttgct gtggctaagt acaatcaaat tgaaccacca acccttggtt ttgtagtaat 180
ataactattt attttcctag tgtagatgct ttcagattag aattggcatt tgcactgatt 240
tttttatgta gatttatata aatatataga tacatatata tttgcttgaa gaatcaccaa 300
gcaaattggt gagagggctt tttccaatag aatttacacc tccatttggt gtgttgtctt 360
gcacttccca atgttgatgt ctctatggct ccaatgaact ggtgtatttt gcagcaaatc 420
tgatgacttg tatggaaatg gcatgaaagt taccagatt acatctggtg caaatgcact 480
cggagcctgg ggccagactg gtgctaacac tgcaaaacttt gtccagagct ctctccaacc 540
tgaaggcttg ctgggggtgc aatgtctcct tcacacatgc tgggcccttt cagaaaagtg 600
ccagatcgtg taactgggtg tatttttcat gctctggtac aatgtgtagc accacggggg 660
tctcagcttt accaaaatca aaattccatt tgtcagctaa gtgcagaggc atttgttttt 720
tgctctcctc ccacagaatt gtcggccatt tatttgcagg cttttgcgg gatttcttgg 780

ctattttattt gcaggccttt tttcccagcc ccaaattctt gggttggctc tgtctgctta 840
aagagcctgt cttcaciaag ctgcactcgg gtgcctctgt gcgctgtctt agatcctact 900
gccggccctt caggactccg agccaggaaa gaactctcca acctctggct cgagactcta 960
ctttttttct cattcttttc cttactctcc tcctccttct acttccgact aattccatct 1020
cttttttttt tttgttcctc tccttttctt attcctcctt cccaccatct ctgagttggt 1080
gactttctcc tataatcctt ctctattccc tttctctttt tgtccacctc tcctttagtc 1140
tctgtttctc tgcccttctt attcctcttc tgcctttct cctctcctca aatctctgat 1200
catcttctcc cgtacatccc tgtattgatt tttctgtcct ctaaagggtc catggctgat 1260
tcagacagca agtccatgca ctggactaat gacacaaata ctttaggtcg ccgtttcacc 1320
tactcagccc agaaagtaaa gctgagcgtg aggccctgac ctggagcctg ctccagccccg 1380
cctccccggag ccagcctgca ccgttgcctt ggcagcgatg atgcatgtgc tgtgggccct 1440
gccggcgcct gagtgcctct gcctgaacac tgctcctaag cgagcccact cccagcacta 1500
ccgcatggct ctgaggacat tttctttcaa taaaggcaga ctctggcccc aattattctg 1560
atagcaaacc tcttctcct cattgaagcc atgccatcac cttggtttgg agagagacat 1620
ttttttccca ttcataagct ttctttttcc catttttatg tgaagcccc tctgcttttc 1680
agctgggtgat tgctctggtg agactgaatg gacttgctgg tgaaatgaaa tctcttcttt 1740
cctgtcttgg tcctgcctaa attcctacaa atatatttaa gccaaggact caggctaatt 1800
cctaagtga tcacattaat ttgttactcc tagagggaag aagatcaatt cccttgaagc 1860
atgtggagta cctcctgtga cagctgactt gccaggggac tcctacaga attctgtgat 1920
atacatttta ctctgtgta tgtatggtat atatggtatg tataccatgt acacacgtta 1980
cattgagtat gaatgactgt ggttggaaac acacacacac actcaagtct gtaaatatcc 2040
ttcctcactg aaacctgtgc tttggaaatc atttcttgta cagctgtgca gtttcttgta 2100
acagctgagg acaaagctaa gacaggcgga caatttagac aaagatcatc taaagagtat 2160
agtatctccc tagcaactca tgaggacaga caaccaagtg gcaagggtga ctcccaatgg 2220
gatggcagac ttttcttctc tcctttttga gtttgtgttt cctaagtgtt tcttaacttc 2280
tgagtgcacc aggctgtacc cgttagatcc tttcaatatg acagttttgt gcttctctct 2340
gacaggatgt ttctccaccg agctgtagca caggatggga gggaggtggg aatactcctt 2400
gcctaggctg gagtttacag agacactgca cagcttacac tcctgttaag tgtaaataatt 2460
caacacttcc attccatttg tgtaaaaaat aaagcacaca cgattataaa atcaagatgt 2520

atatttcat

2529

<210> 774

<211> 3347

<212> DNA

<213> Homo sapiens

<400> 774

ttaccttggg tccgagcagc cagctccaac tgttctgcaa gcagcactgg agtcaggggg 60
taggaggaca agtggaagca aaggtgtggg actggggaag acaaagagga acaagctgcc 120
cttcctcact tttcaaaggg tcaggaatcc taggctatga tgctgggaag ctagaccagc 180
tcctccaaga gagactagac cagggtcatt ttctctgtta ttaactctgg gctccagctt 240
ctccgtgccc tgctttacct ccaagtgggt ccaatttcca aaggccctgc tgaccacatg 300
tgattcccag gagagggtg ggggagggga gcgcagaggt ctggcttcca tccttggcgt 360
gtagctttgg atcgctgtct aaccacacag cagacgttgc ccggtctccc cagctctagt 420
ttcttgcctg aatgcggctg acaaatggga agagaaaagc attcagcaaa atactcagga 480
aacttgctgt tttcattata attcacaacc agccatgcc aaggccacttt cttttgaaaa 540
tccacttctt taaagtttct caggccctat tagtagcctg aaggaaatac taatgactgg 600
ccttccgcac taagccaaag tgtttgctct tcatagcact caaagcttat cagcgcagag 660
cccataattt atggagataa aaggaaagga gatataggta agaagagtgt gaccaggaga 720
ccttatgcta cctgtaaaaa agttcagccc accccatcta acttctgagc tctgtttggg 780
tgaagatfff ctggccgcat ggctgctcag actggcatcc aggctttgct ccaccaagaa 840
gttaaaggca gtcggacatc tcagtagcat ctctaccagc ccttaactca atgcatctac 900
ctggcatctc ccagcagtta cttttggaga cgattcactg cccctggggc gtttccttga 960
aggtttgtgg agagcgtgga gaatgatggg gcaatggcca attggagggt ggagagttaa 1020
gagccggagc tggctgtgag tggtttggcc acatttctca ggattccatg agagagttag 1080
ggaacttggg ctgacaaagg aagtagcctg gggcatcctt aaggaaggaa ttaagaaaag 1140
ggaaaaagct ggactcaagc cagccatga ggatgaaagg ttataaggcc ctgccccctt 1200

tccagctgcc cacctgttcc tcctccacac ctcttcgctt tgggccacca agaaccaatg 1260
aagtccacac cctttggatg agaaaaagag ggagttgggtt ggcctctctt ctccctgtta 1320
tccaatttga ggatattttg accttgggtta aggatgaagt gttaaagcca cagctcctct 1380
ccacaagaag ccattcatct tgggggaggc agagaggga gtctctctcc aaagtctatc 1440
cagcttcgct tcgtttcatt gatctgcaca agagacaatg ctctggaaaa ggaagaggac 1500
cccagaaggg tgcttgcaa gacagaggat gctaattgggc aatggagagc actccctcca 1560
gctggcccct gctgctgcct cccgtcctct gcacggggtc aggtgcttct gtgcttgctg 1620
tcctacctct ctccacagca gggctctcaa aaccattttg atccccatt ggcagagggt 1680
tcccctcttt acagagttca gtcattaaaa gcatggatca gctgttaatc tcattggagg 1740
agggaactgt ttcctgcatt cattcatctg ggaaccttct tgagtagcca ctgtctgcca 1800
gccactgctc tagagatggg aaaacagcac ggaacaaaac caaggtcttt cttccagcga 1860
atttatatcc ttcaggaagc tggttcctgc caccaactta gcaggcaaca gttctcctcc 1920
cctagtggca cagggtacca gttttgtagg aaaagtggtc cagcaaagga agaaagcaga 1980
ccaaccagc tgccttacct tattctgggg ccattcccc agcgatgaga gctgctcttg 2040
tttctactgc caccatctct tctggctgca cttcacctgc tgcttgagct tctgaccttc 2100
cttcagttcc accaaatgag gacaggaaat agcagtcaag acccctggcc ctgctgagcg 2160
tgaaacagaa gcaatggatg agtgctggaa gaagaatggc ctgggcagaa caaataggga 2220
gcatttgaaa gcttctggct gataaatctc caggatgcac ccggttgcca cgcctgcccc 2280
cattaacctg ctcttggtta atactgatcc agcagctgct ccaggagagg ccgtcttttt 2340
tttcccagcc acgctgtgtc ttgcatgaga ctcttggggc ctgggcacag agagaaaaga 2400
attgagactc aggaggctca gtgggtgaga aaatgcaaag tggcttcaca gacacagggc 2460
tgtgggagca gatcgacggg gaacttggga gatgaacttc agggccttcc gacgccttgt 2520
ctcaggaaca tgctttgaga aaaatggtag catcctttcc ataactcagt ctctcttccc 2580
tagtttcctt gaagtgtgac gtttttagtat ctggagctca gtgatcccca tgaatgaggg 2640
ataaagtttc actcttggta ttttctaact agtgctaggg aaagtctga gacacgatca 2700
cagccactgc ttggcataca gggcctccac ccaataagca aactggagat tcctcagcct 2760
ctcgtggaca cccacatctc attcttctca cagcagagaa gctctccctt cagcctgagc 2820
cgtcttcttt ctgctgcagt gcagcctgct cctcctacc ctggcctcaa ggaaggtggg 2880
aaacatcttc tgcatttcaa agtctcact ttgacttatt tggccttcat cttggcatgg 2940

aaggtggcag gcagaatgga aatactcccc ccaaacagaa cagatattct tgcgtgtgta 3000
agggcagaag ggacaagctc tctatcccat gagactaggg gccggagccc acctgccttt 3060
ccccacaact tttctgctc aaaccctc ctcttgacac actggaatct gtattatata 3120
tatttttaag aaaatacaat gatggttgctc tggttttgtt gtttttacag gtgttggtga 3180
ataaaaaactg taagaaaatt aagtatttaa aatgttccaa taaagtgggg tttttttgtt 3240
attctaatat attattgtgt acctattgta aatatgaaac actcctattt tgcaagctga 3300
ggacacaatt tgtactgttg ttatatataa ataaagttta ctgaatt 3347

<210> 775

<211> 3263

<212> DNA

<213> Homo sapiens

<400> 775

gtgttttttc cttttcattt cagcctgact gccggaatca gagccgcggg tgagatcccc 60
agccctgtga gcctgtagga gtagaatggc tccccaaatg tatgagttcc atctgccatt 120
atccccagag gagttgttga aaagtggagg ggtgaatcag tatgtttgtc aagaggtact 180
gtccatcaaa catcttcac cacagcttag agcttttcag gctgcctttc gagctcaggg 240
gccctggct atgctgcagc actttgatac tatctacagc attttgcat tggttactgg 300
ctgttgctac cgccttctgg agaatccac cattaatcac cagaagaacc gccccactcg 360
ggaagccata acacacctgc ttggtgtagc cttgaccgt tataaccata tgctcagtgc 420
tacagtgaag atcatccaga tgctgcagca ctttgaacac ctggcacctg tactggttgc 480
agccgtgagt ctatgggcaa ctgactatgg aatgaagagc atagtgggag agattgtaag 540
agagattgga caaaagtgtc cccaagagct gagtcgagac cttcagggga caaagggtt 600
tgcagcattc ctgacagaac tagcagaacg tgtcccagct atcctgatgt ccagcatgtg 660
cattttgcta gatcacctgg atggagaaaa ttacatgatg cgtaatgctg tgctggcagc 720
catggcggag atggtgctgc aggttctcag tggcgatcaa ctggaagcag cagcccgaga 780
caccagagac cagttcttgg atactttaca agcccatggc catgatgtca actcctttgt 840

gcggagccgt gttttgcagc tcttcacccg aattgtccag cagaaggctc tccccctgac 900
acgtttccag gcagtgggtg ctttagctgt gggacgtctg gcagacaagt cagtgctagt 960
atgtaaaaat gccatccagc tgctggccag ttttctagcc aataatcctt tctcctgcaa 1020
gcttagtgat gctgaccttg ccggaccact gcagaaggag acccagaaat tacaagagat 1080
gagggcccag aggcgaactg cagcagcttc tgcagtgtctg gaccagagg aggagtggga 1140
agccatgctg ccagagttga agtctaccct gcagcagctt ctacagcttc cccagggaga 1200
ggaggagatt cctgagcaaa ttgccaatac agagacaact gaagatgtga aaggacgcat 1260
ctatcaactg cttgccaag ctagttacaa aaaggccatc attctcactc gagaagccac 1320
aggccacttc caggagtccg aacccttcag tcatatagac ccagaggagt cagaggagac 1380
caggctcttg aatatcttag gacttatctt caaaggccca gcagcttcca cacaagaaaa 1440
gaatccccgg gagtctacag gaaacatggt cacaggacag actgtctgta aaaataaacc 1500
caatatgtcg gacctgagg aatccagggg aaatgatgaa ctagtgaagc aggagatgct 1560
ggtacagtat ctgcaggatg cctacagctt ctcccgaag attacagagg ccattggcat 1620
catcagcaag atgatgtatg aaaacacaac tacagtgggtg caggaggtga ttgaattctt 1680
tgtgatggtc ttccaatttg gggtagccca ggccctgttt ggggtgcgcc gtatgctgcc 1740
tctcatctgg tctaaggagc ctggtgtccg ggaagccgtg cttaatgcct accgccaact 1800
ctacctcaac ccaaagggg actctgccag agccaaggcc caggctttga ttcagaatct 1860
ctctctgctg ctagtggatg cctcggttg gaccattcag tgtcttgagg aaattctctg 1920
tgagtttgtg cagaaggatg agttgaaacc agcagtgacc cagctgctgt gggagcgggc 1980
caccgagaag gtcgcctgct gtcctctgga gcgctgttcc tctgtcatgc ttcttggcat 2040
gatggcacga ggaaagccag aaattgtggg aagcaattta gacacactgg tgagcatagg 2100
gctggatgag aagtttccac aggactacag gctggcccag caggtgtgcc atgccattgc 2160
caacatctcg gacaggagaa agccttctct gggcaaactg cccccccct tccggctgcc 2220
tcaggaacac aggttggttg agcgactgcg ggagacagtc aaaaaggct ttgtccaccc 2280
agaccactc tggatcccat tcaaagaggt ggcagtgacc ctcatctacc aactggcaga 2340
gggccccgaa gtgatctgtg ccagatatt gcagggtgt gcaaaacagg ccctggagaa 2400
gctagaagag aagagaacca gtcaggagga cccgaaggag tccccgcaa tgctccccac 2460
tttctgttg atgaacctgc tgtccctggc tgggatgtg gctctgcagc agctgggtcca 2520
cttggagcag gcagtgagtg gagagctctg ccggcgccga gttctccggg aagaacagga 2580

gcacaagacc aaagatccca aggagaagaa tacgagctct gagaccacca tggaggagga 2640
gctggggctg gttggggcaa cagcagatga cacagaggca gaactaatcc gtggcatctg 2700
cgggatggaa ctgttggatg gcaaacagac actggctgcc tttgttccac tcttgcttaa 2760
agtctgtaac aaccaggcc tctatagcaa cccagacctc tctgcagctg cttcacttgc 2820
ccttggcaag ttctgcatga tcagcgccac tttctgcgac tcccagcact ttgcgatacc 2880
aaggcgggtg gataacctga ggtagggagt tcgagaccag cctgaccaac atggagaaac 2940
cccatctcta ctaaaaataa aaaattagcc gggcgtattg gcgtgcgcct gtaatcccag 3000
ctactcaaga ggctgaggca ggagaatcgc ctgaaccagc aggcggaggt tgtagtgagc 3060
cgaaatcaca ccattgcact ccagcttggg caacaatagc gaacctccat ctcaaattaa 3120
aaaaaaaaatg cctacacgct ctttaaaatg caaggctttc tcttaaatta gcctaactga 3180
actgcgttga gctgcttcaa ctttggaata tatgtttgcc aatctccttg ttttctaattg 3240
aataaatgtt tttatatact ttt 3263

<210> 776

<211> 2210

<212> DNA

<213> Homo sapiens

<400> 776

ctgcgtcacc agaaaatgtc aaagttacct gaagcagcaa agaggctctt gctccggccc 60
ctcccttcct tctcagctcc atttgttgcc acatatgcgt tgactggaac tgcgactgac 120
atcttgggac cttagggtca gtccacagcg tggtagagac tccagcttgg cccagcattg 180
ctgagctgct gaactcgcac caacagtctt gttggaggga aataatctcc cgtttgttca 240
gtccagttat ttgacagtgt ggttacttgc accccaagca tttctaactg gcacttccat 300
ctaataagacc tcagggtaca tggtggtgag ataggacat cagtgcagctg gattgttccc 360
atggtaaagg tcatgtatgt gtgtgtgtgt catggtcctc aataccagcc ccaagcccag 420
tgatttgcta ggaggactcc caagactcag tatgtggttg tattcatggc tacgattgac 480
ttattacaac aaaaagatat ggagcaaaat cagcaaaaag aatgggtgtg caggaccaac 540

tcccagagag acccaggcac aagtttccag ggcttctccc tcattggagt cacacaagat 600
gtgctcgggtt cacagtaatg ggttgtgaca atacatgcga aatgttgctg accaaggaag 660
ctcaattaga gactcagcac ccagaggttt tttttgttgt tgttgttgtt ttggtttttt 720
tttggcgggg gggggggtct tgctctgacg cccaggctgg aatgcagtgg catgatcttg 780
gctcactgca gcctccacct cctgggttca agcgatcctc gggcctcagc ttcccgaata 840
gctggaacta caggcgcgca ccagcaagct cggctaattt ttgtattttt agtagggatg 900
gggtttcacc atgttggcca ggctgatctt gaactcctga cctcaagtga tcctcccacc 960
tcagcctccc aaactgctgg gattacaggc gtgagcacct ggctggtatc aagtttttat 1020
tggggcatgg tcacataggc acccctgcc tggcacctac ccaaatccca ggctcccaaa 1080
aggaaagcag gggctcagca taaaccacct tttttttttt tttttttaat tgagacggag 1140
tctcgctttg tcgccaggct ggagtgcagt ggcgtgatct cggcttactg taacctccgc 1200
ctcctgggtt caagcaattc tcctgcctca gcttcctgaa tagctgggac tacaggcgcc 1260
tgccaccacc acgcccagct aatttttgta tttttagtag agacggggtt tcaccatatt 1320
ggccaggctg gtctccatct cttgaccttg tgatccgcct gcctcgacct cccaaagtgc 1380
tgggattaca ggcatgagcc accgctcctg gccactttt ttatacaaac agcttaggta 1440
gagtaagcca ttcttttttt tctttctttc tttttttttt tttgagacag ggtctcactt 1500
tgttggccag gctggagtgc agtggctcaa acatggttcg ctgcagcctc aacctccag 1560
gctcaagcgg tcctgctgcc tcctcctcca aagtagctgg gaccacagac atgcaccacc 1620
atgaccccag ctgatttttg cagagatggg ttttgccatg ttgcccaggc tggccttgaa 1680
ctcctgggct caagtgatcc tctcaccttg gcctaccaa gtgctggcgt tacaggtgtg 1740
agccaccaca cccggcccga gtgagccatt cttatctctt agggaatggt gggaaccctc 1800
ctggagtcta tgttcttaga caccaccaa gggccaacct tgaagcaggc ctttccaagg 1860
atcgcagttg aggcctgctc tgttactgtt tttctgcaca gtgtgcaaca ccacacagat 1920
gcccagtttc taccaaggtc tgtggatggc aggataattt tgaggaacct ctttttctgc 1980
taacactttc ttcttttgtt tacactcttc acattgtcta ttgagtctgg attcaagatg 2040
attgattgtg aatattgttg tgcattgatt tgggggtttc ctccttgtga aattttgagg 2100
tggcagattt gacattctac tttaaactca tcttgggtggc acttttcttg actcaccacc 2160
taagggggaa taaataatga agaaagaata aaaatagtgt tatcagtcac 2210

<210> 777

<211> 5333

<212> DNA

<213> Homo sapiens

<400> 777

ctgtcactgc	agcctggcgg	cctgagcgcc	gagcctgggg	ctggggccgc	ggtgctgagg	60
acgcaaatca	gccccgtagc	tgggtggagc	ctccgggcct	gacgtggatc	ttcactggag	120
aagtgactca	gggatcctcc	caggatgtct	gcctcaccag	acaacctgag	tacaggggga	180
aggttacaga	acatgacagt	ggatgaatgc	ctccagtctc	ggaacaccgt	cctccagggg	240
cagccctttg	ggggtgtccc	caccgtgctg	tgcctcaaca	tcgccctgtg	ggtgctcgtc	300
cttgtggttt	actccttcct	ccggaaagct	gcgtgggact	atgggcgcct	ggctctgctg	360
atacacaatg	acagcctgac	ctcgtgatc	tatggggagc	agagcgagaa	gacatctccc	420
tcggagactt	ccttggagat	ggaacgcaga	gacaagggat	tctgttcctg	gttcttcaac	480
agcataacaa	tgaaggacga	ggatctgatt	aacaagtgtg	gggacgacgc	gcgcatctac	540
atcgtgttcc	agtaccacct	catcatcttt	gtgctcatca	tctgtatccc	ctccctgggc	600
atcattttgc	ccatcaacta	tactggatct	gttctggact	ggagcagtca	ctttgctcgg	660
accaccattg	tcaatgtctc	cacagagagc	aagctcctgt	ggctgcatag	cctgctgtcc	720
ttctttctact	tcatcaccaa	cttcatgttc	atggctcatc	actgcctggg	gtttgcgccc	780
aggaatagcc	aaaaggtcac	aaggacacta	atgatcacct	atgtgcccaa	ggacattgaa	840
gaccagaac	tcatcattaa	gcattttcac	gaggcctatc	caggcagtgt	cgtgacaaga	900
gtccacttct	gctacgacgt	caggaacctg	atcgacttgg	acgatcagag	gcgccatgcc	960
atgcggggcc	ggcttttcta	tacagccaag	gccaagaaga	ctgggaaggt	gatgatcagg	1020
atccaccctt	gtgcccgcct	gtgcttctgc	aagtgtctga	cctgcttcaa	ggaggtggat	1080
gcagagcagt	attacagcga	gctagaggag	cagctaacgg	acgagttcaa	cgccgagctc	1140
aaccgcgtgc	cgctcaagcg	gctggacctg	atctttgtca	ccttccagga	ctccaggatg	1200
gccaagcgtg	tccgtaagga	ttacaagtat	gtccagtgtg	gtgtgcaacc	ccagcagtcc	1260
tcagtgacca	ccatcgtaaa	atcatattac	tggagggtca	ctatggcccc	acaccccaaa	1320

gacattatatt ggaaacacct gtctgtccgc cgcttctttt ggtgggccc ctttatcgca 1380
atcaacacct tcctcttctt cctcttcttc tttctcacca cgcctgccat catcatgaac 1440
actatcgaca tgtacaacgt caccgcgcc atcgagaagc tgcagaacc aattgtgacc 1500
cagttcttcc cctctgtgat gctctggggc ttcacagtga tactgcctct gattgtctac 1560
ttctccgcct tcctcgaggc cacttgacc agatcaagtc agaattctgt catggtgcac 1620
aagtgtaca tctttctggt gttcatggta gtcattctgc cctctatggg actgaccagt 1680
ttggatgtct ttctccgctg gctctttgac atctactatc tagagcaagc atccatcagg 1740
ttccagtgtg tgttcttgcc agacaacggc gccttctttg tcaactacgt gatcacggca 1800
gctttacttg gcacaggcat ggagctgctg cgtctggggc cactcttctg ctacagcacc 1860
cgctcttct tctctagatc agagccagag agagtcaaca tcagaaagaa ccaggccata 1920
gacttccagt ttgggcgtga gtatgcgtgg atgatgaacg tgttcagcgt ggtgatggcg 1980
tacagcatca cttgccccat cattgtgcct tttgggttgc tctacctgtg catgaagcac 2040
ttgacggatc gctataacat gtactactcc tttgcacca ccaaactgaa cgagcagatc 2100
cacatggctg ccgtctccca ggccatcttt gcgccactct tgggtctgtt ctggatgctg 2160
ttcttctcca tcctgcggtt gggttctctc cacgccatca ccatctttc cctgtccacc 2220
ctctcattg ccatggtgat tgcctttgtt ggcatttttc tggggaagct tcggatggtt 2280
gccgactacg agcccgagga ggaggagatc cagacagtgt ttgacatgga gccaaagcagc 2340
acctctcca cgccacctc cctctgtat gtggccaccg tgctgcaaga accggagtgt 2400
aatctgacc ccgcctctc ccagccagg cacacctatg gcaccatgaa caaccagccg 2460
gaagagggag aagaagagag tggcttgagg ggctttgcga gggagctaga ctcggccag 2520
ttccaggaag ggctggaact ggagggccag aaccagtacc actgaccggg acctgaggcc 2580
tccactggcg acttggtgag gggtcagggg agggcctggc aaggggaggc aggagggtgg 2640
cctggacctc cccactacct cctgcagact ttgagaagcc tacagtggag acatccacca 2700
ccccagccat gggccatacg ggggtctga cctgctgccc ggctggaact ggggctgctc 2760
ggcagtgtg aaggagcctg ggaagggatg ggaggataca ggcaagcaca tgtcttgaga 2820
gaggtggctg gagccccggc acagagactg aacgctgggg tcccttctg ggaccaagat 2880
ggagaaggtg ttcctaaggg aggagacaga aggaggctgc cgaaggctct gtggggtcat 2940
caccactctg catcagctgc ccttaaaagg agcttctgct gctgctctc ctcccagccc 3000
cggcccatc ctcccctgca gtctgaggag gcaaaggtat gtgcacgggg cacattgaca 3060

ggacacggag gaccacctca tcacagggtt ccctgcatgg ggatctgtaa agagaaagtt 3120
tctgcaccca ccagagcaag agccaactga aagcgtagac ctgagaagag gtaactcagc 3180
cccttcctgc tectctgccc tcatcagatg tccccaggag cagcaggga gaggcccttc 3240
tttctattct tacaagggtg gctagagcgt gatcactcag ggctcatcaa atgagactcg 3300
tgtgcatttt tcagaaggaa accttggtta gtccttgctg ggtaacacaa agtggggtga 3360
gacgacagaa gccgaattca tggaaggggg gtcttctccc caaaactctg tgtggtggga 3420
aaccagctat acctcccaa gcccagggc cttaaagaaa gaccccgaa gccaaagatg 3480
tggccactta aaagcgtctc ctgcctccta ccaactgag tgcctgggcc ccagcttg 3540
ccaagatggg cagtacgtta gggtaagaac cccatgctc aaacttaagg actgaccatc 3600
acctgcgtcc caagtaggac ctttctccc ttctcggggc tgccctgca ccctgccttg 3660
aagaccacc aagcggcctc cagtgtgggc ctggtccaga cattgcagat gcttcaaccg 3720
tgatgtcgcc ccaggcctgc caggggtgtg gtggaggga aggccacgtg ctccaggag 3780
aagcccttc tggagaagca aggtgtcct cccagggtg ccactaccag agacctgggg 3840
gagctgaatt ccgaacagt atggtgacac tcagcacctt tgccacagcc ggggggaacc 3900
ggcttctgcc tctgggatgg gctctcatca gggccaccgt gcagcccagc caggaggag 3960
atgagaaggg ccagtggggg cctcaatgaa ccagaacaag ccaagctgaa tggggtctgt 4020
gtgctccagg gccctcttca gcccctccc ccaaaggtct gggtcctgc caccaacct 4080
ctgaaggccg gcccggct cactcacct gagcacctgc accaggccc aggcacatgg 4140
ctgccctgaa ctcatcac ctagacctg tccctgccc accttgccc catcctagcc 4200
ccagaagctc caagctcac cgcaggtgag aaattgtgt caatgggcag aaactgctat 4260
accccaggg catggccac attttggcat gagggtgtct ttccagagag cttgggttg 4320
ctggagagag gctgtcttcc ccttccttg tccagctagg aataaaggg aaatggctc 4380
agcctggccc ctacacacc aggtcccaca gggccctc cactggaat ttcaccaacc 4440
aacaagggga aagtacgtg ttacagcata gcggtcaggc ccagcaggag cttggcacat 4500
gatggggagg tggccagctc caggccctgc ccgacccat catgtgtatt tgggtgatgg 4560
ggtgtggggg tcacaccaga agctggcctg gggctcttcc ttgtctggac acagctccct 4620
ggcccctgcc ccagcccct gcagcccctg ccgactgtg gaagccacat atgggaaaag 4680
tcctggcaga caatgtggcg ggatgactgg gggcttctcc ctctgaacct ggggtccagt 4740
tagcctggct ctgagagaag gtggtgagca tgtggagaag gttccatagt ccactcttag 4800

gggaaccagc aaagcctcat ggcagttggc tccatctgga cctcccatgg tctactacagg 4860
 atggtggagc aggggggcac ttttagcctc ccccgccac cacatccagg ccctctcagg 4920
 cacctcctgc ctcagcccac acctgcctca cccattgccc ccctccccc acctactgcc 4980
 atcccactcc tctgccagcc acttcccagc cgccccaccc cactccatcc accaaatcac 5040
 ctcttgactt aatcctttct ggaaggagct gccgcccagg aaccggtatt gcctagagcc 5100
 tccaggaggg gccctcctca ggctccagt ggccccatgc ccacctgcct gaccctccac 5160
 tgccccctgga agcaaagtgc ctatcagcag cgttgcgctc tctggggccc ccggtcgggg 5220
 gggagggggt gtgggctaac ctgggccacc accacaaaag gaatgtgcca gaatgctgaa 5280
 ccttcttggt aatgctatga ccgtgccttg aataaacaag tcctccaac ctc 5333

<210> 778

<211> 2672

<212> DNA

<213> Homo sapiens

<400> 778

ttatatgtaa gcatggcaga gagaagccga gttcttgcac agaattctga aggctgattg 60
 aagagccagc ctctgacct ctgagggcag ggactggatc tctctcttc ccctgtattc 120
 ccatcctgcc acacaaagcc cggcccagag tcagccctca cagccttggt tcatgagcca 180
 gtaggaagca agaaggattc ctggcacagg acggggcaga agtaaaggcc taggactagg 240
 atgtagccag aactctgggg aaggctttgc agggagctag ggggtgatga gacccttcac 300
 gggcaggtcc cagccaggtt gaggagggtc cttgtcaggt gaggaggttt ggttctttcc 360
 tggaggcagc aggacatatg tggccatgtg ggaccaggag aggaaccac agtgctctgc 420
 tttcagcaga gatctgtgaa gctagaatgt caagggccag ggaagtggaa ggcccagaac 480
 cttcaggggt tctggttgcc ccagagcaag aagaagaagt ggaggagaa gccaggagag 540
 aattgcaaga tgacccttca ggtcctccca gctctagtgg tctctgttct gaggcttccg 600
 gaccctataa gagtgagcag gagggtgcag gcatttgggg atggagcggc atgaagtggg 660
 ctctggggg tcagcagagc agccaggcgc aggacagagc tgctccaagc aatcctgatg 720

agagctggca gaaggctgag gtcggtgggg atagtgagga gggcatgggt ctgggtgtgg 780
tgggcgaggg tgtctcgccc atctctgggt tggacagggtg cacctggtaa gtagccaggc 840
cctgaggcgt caccgtaggt acctgcagat tctggatgtc agcaggagcc ttgcctgccc 900
acctggtgga agctgtggga ggaattggag caagaggcgg tgtgacttga acttgggggc 960
tggaagtgga agaagaagtg agaggagca gacccgagag agattcagga ggcaggatag 1020
agaggactgg gtgatggatt aggtgggcaa gggctgggatg tctgggggag ggtcagggca 1080
gaacagcgtg gcccaccctg ggctcgtaca gggctggatt tcagtgccag ctgtgtggtc 1140
ttcatttcct gagcctcagt tgcctcatct gtagaatggg gagagggtgg ctatgaggat 1200
ccaggagcta tgggctcagt ggctggcgtg ctctgcacgg tggagcctca gccccagtca 1260
ttgggggtgtg gacgatgggg gagctgagggt caagtcaagg cctctgctca cgggcagccc 1320
ctgctgccac cccacagccc gtagaaagag ttccggatag gaccacagga ggcctggtgg 1380
gctcagcaca cagatgatga ccttggcaca cgacctcct ctctggtat cctcctgcct 1440
gagacggtgc tggggcagat ctctcagag gtcgatagga ggatgcagtg aggtggcccc 1500
ggccgaggta cactcggtaa cagatcatca tgtgcagtgt cggcgcaggc attgggcacc 1560
tgggcctcat tttctcttcc atgaagtgga tgttctcccc tcgagggttc atgccgggtg 1620
atcaggagac catgatttgg gcagctcact ccccagctgg cagccgggct aaatctcatc 1680
agtgccatt tagatctggt gctccgccct tgccccgaag ggacaggctg cctgcagaga 1740
gagccgggac ctccacattt tctgctgagg ctcttttcc cagcattggc tcctctgcag 1800
ctgctgggcc acagccagag gctgtcagag atccaaggga gtcattgcca gtgtccttgt 1860
ctaaggagga tgggccatgg agaagccctc cctgcccgt ctccaccag atctgttgac 1920
agccaccct cacatgcca gggcctggag ggtcccagca aggctgagac tatgagcagc 1980
tgtcctactc acataccat cccagcatcc aggtcagccc ctttgcctg gggtcctcaa 2040
ggtcactggc gcccttccag cctgctggcc ttgggccagc ctctagcccc tccttctgga 2100
tcttggctct ctcagatctg acctgtcac ctctttccc gaccaggccc ctccccctct 2160
ggtgcctggg cagcctgggg gaagtatgct ggaagcagcg taatgatctg gcaaggcaga 2220
ggagacagca cgtcttga aa catttttggg gtcaaggact acccatttg ttcctcact 2280
cccacctagg tcatgatgt gcattagctt ggactgttgt aacaaaatat cacagacagt 2340
gtggcttaaa caacagtcac cactttccac agttctggag gccagaagtc cacaatccag 2400
gttccctcag attctgttcc tggcgagaac ccacttctg gcttgtagac ggctgccctc 2460

tcaactgtgca ctcacatggc attccccagg cgcatgtgca cggagtgaag gagcacgagc 2520
tctctgggtgt ctcttataag gacactaatc ctggccaggc gcagtggctc atgcctgtaa 2580
tcccagcact ttgggagact gaggtgggtg gatcacctga ggtcaggaat tcaagaccag 2640
cctggccaac atggtaaaac tccatctcta ct 2672

<210> 779

<211> 2482

<212> DNA

<213> Homo sapiens

<400> 779

taagggaccc cggccgcttt ctccccaaga ggcaacaata aaagcatcct cctctcgccc 60
caatacttcg caggaaagtg gccccattcc cgggaccagc tcgaccgcag gaaaaaagca 120
cggccagcct cacttacctt atagacgtcc ccgtaggtgc cgctgccgac cctctggacg 180
agttcgtagt cctgctgcgg gttccgcctc aggatgtccg cggcaggccg cagcggggcc 240
tccatcttca cttaggggccc ggcccccgcc agctcacccc gcggctcccg gattcccgt 300
aacaagcacg aacggcgccg cttcccaaca tggagcctcc gcccgcagct ccgtctgcac 360
gagggacgag caaaggctgg ttggcgctgc aggctacgac ccccagcggc ccgcgcctc 420
gcggccccggc cccttccctt ccgtcccgcc cggggccgtg gaagagaaag gggcctggaa 480
gggcccccg gccccgtat ccccgttcgg tctgcggccc ttccccctcc ccggccgccc 540
gcgaactgcc cgacgaggcc tccccgccag ccggggccca gggccggctc ggtacctaat 600
gggggcgggc ccgtctttgt tgagcgcgga gcccgggacc tacttctag accgcacccg 660
cgtcctctc ccgcgcgcg gccggcagct ccgggtttgc cgctgccgcc gccgccactc 720
agccgctgca cggcgcgctc tctcgggggc ggcggaggcg cgtacagtcg ccgccgccg 780
cgccgccgca ccacgttccc caccggggc tgcgtcaccg ggagacacgt tcccagccag 840
catgggtcgg cggccagcgg ctgccccgag cactccggcc gcagaaccag agtgccgccc 900
tgaggcctgc tgagaacaca acaccctccc gaccgcgcca ccgcgcccc ctagccgggc 960
gcgtccttgc agggcctggg ctgtctccct cccactctca gaaataaggc acacgcctgg 1020

gcattcgtgg gccaacgggc cttggctaaa ccgtccccac atttgtcagg taggcctgta 1080
gggtgacggg tagaggaaga agggcgatgg gaacgtagcc ctccaagtta aacacggaaa 1140
aggtacgtta agggcaccgg gccagaagta acctggcagc ggggcgccgg ggaaggaggt 1200
gggggagtgc caggttaact aagtcccggc acaccctact gcaccttcct gttttgcaaa 1260
ccgatcccgg tgggtaccagt ttgaggctgc actgcacacc tgcacaacct gcctttctact 1320
tagttcttct gagacatttc tgaaagtctg aattcctagg actgctcaat gacctttgtc 1380
cctgttgggc acacgcagtg tctcatcgct ggtattgcac ctttaatgag accaggaggtt 1440
ccgcaaaaagt aaaacaaagg ggtcacagac tggttctggg tctaccactt cctcagtatg 1500
tgctctggga caaaacagca tatttggcaa catctcggtg tccttatctg cagcttgaag 1560
agggtgaagt tttgcatctg acaccagga aagtgtttat aaagcgtttt acaggattgt 1620
aaaggggggtt atcgaatata agaggtctta aaatacttaa caatgcacag catacatgga 1680
acaggagttc ggggaagtaa tttggctgat atttcacaag ctgttttgca gtttcagttc 1740
cagtcttgct ctgaaggtag aaattaagtt gccagtgtta cattatactg gctaagttat 1800
ttctagagcc tcatagagaa tttgaacaga aaagccagat aacactcagc cactgcattt 1860
agtgactgaa acatcataaa agagcaagtt ggagatgttg gcttgtggct ttgaacatcc 1920
aatTTTTaat tctgctcttg agaattaaaa tactccttat tgttgataat tgtataatgt 1980
ataataagga gtaattgaca atactcctta ttgttgataa ttgtataatg tagaaattaa 2040
attcgcacct taacaggaca gggcatatat gtattttctt gtgctccaca cacaaagggc 2100
acttatTTgg ggaacataag taagcccaga cttacatgct ccatggacaa agcctatgtg 2160
tttgcTgcat tgaaaaaatt gttgaagaac agttccttct ttcaaagatt cttggcactt 2220
gttttggTgg gcacatactt ttggcttcga tgactcaaaa tctcttcaaa tgttctattg 2280
gtatcttagc acttgTTtac tgtcatagat tcatttgaga ttttttctt ctggccatat 2340
aagcactgat cttttatcta gtctgaaata tatttattct tacatgttta cacttgcgtt 2400
actccaggga atttcaggca gcacacagaa aacacttact ataaaacaag ataaaaataa 2460
gtgggcaaac tagtatgacg tt 2482

<210> 780

<211> 2114

<212> DNA

<213> Homo sapiens

<400> 780

ttggaagtgc agaccatgga ttcctatgca gcagatgggg gttgtctgtt tgtgcacttt	60
tttcctaagc tgctgaaatt cctccgatgt gaatgggcca tagtaatctt tgcctcctgc	120
gtgactgtaa gcatggcctc cagtggatca gagaaagcag ctcagtgatt gttctcatgg	180
ccaaaaataa agcacaaggg ttaccggaat tgaatgagcc ctgttcaggg cagcacgggg	240
catctgcacc ccagctgggc agcatgatcc ttgtattcaa ctatactctt ctggcagtag	300
ttggtggcaa gcattcgcgt gcctctgtca caaccatacg tagaaacaca ttaggtatgt	360
ctggaaagct acaaatccca catccaagca cagtaccgtc tgcttcactt gattaacaca	420
cacacaagaa agaaaaatta caccacaga aaactgagta tgtattgtag aaatgtagag	480
gaaaaataaa aatatttttt tcaaatgtaa ttacttttaa tatatgcttg tggaaggtct	540
aatacaatgt atgctgtctc tgtaattttt gctgtaaata actggagacg gtgagtacac	600
tgatttttct atgtctctgt ttaagcataa gactttgtaa caattttttt agagggggaa	660
aatcaacaaa gagcaaata gtacttgctt cctttctgcg tgttatgtac ttctcagttt	720
tttaatggaa actggttgta acagtttaag catcttgacg ggtcattggg gttaagtgt	780
tgcttctttt tgtaatatga ctgagaaagg gacagggtc tcaattaaat ctgctccaaa	840
gaatttgtat tgaagattgg cctaagacct gcaaactcca tctataacta gaaaatacga	900
aaaaggaaaa ttaaaaaaaaa aagttgcctg agttaagtca tctttccttg tagcaaatgg	960
ctttgtccaa atcctttctg catggaatag ctttaaggaaa acaaactccg ctttttgatg	1020
aacaagatat ttttgtacac atttatttct tgtaataaac ctgaggtcag accactcatt	1080
tgctgaagcc ataactgacc ttcaccaaata aaatgttgta aagaacctag gggagggttg	1140
gggagagact gagaggagg aaaatccaag gtgtcatgag ctatagcaac acaggcagga	1200
gcaagttgtt gaaactgatg cttttcctgc atcccaaata tgactttaaa aggctagtat	1260
tttatgatga tcgatttata atgataaaaa gatatttaga tttaaatgag acattccaat	1320
atttttgaaa tccctaacaa tgcttccttg ctttttaggat tgagagaaat gattttcata	1380
tacttccaac attcagagat ttaatgtttt taccttagct ccagcctacg cttgtaaagt	1440
gaagagtgat tctaagtccc gtgaaaccgt gggctgcctg gggcttggct gtgcccacta	1500

acctactgcg cctggggggc agcatgggag ggggtacagtt tgcattcat tagcatgcac 1560
 accactgttg gcaatgcata aaagttgcat tgccacaagt atgtaaaata aaaatattca 1620
 ctctaaaaag aataataatt ctactttttt aaaagaataa tgtctcttat agtcaccatt 1680
 gatTTTTctg gagtttaatt acattattac catgtattct tattggcctg tagaggaaaa 1740
 aggcaaacca caaataaacc cagtgcata tatagtttta aaatctacaa ttttctgac 1800
 tctctctcct tgtttaatat ataagcccta atttctgtgt atgtgagtaa aactgcagcc 1860
 tgagtcattt aggaagtaag tattgagttt ttttaatcat aaatatacta gaataaaaca 1920
 gcactcccta acaattaaaa aagagtttta tattacttta gaatgtaata ggTTTTgtc 1980
 cttattttat gtcctgtaaa ttattagttc aatactgtta gcattcccgg ataatgcaca 2040
 catgatttct gaatgttttc tgtaaataac aatcaatgtt tatgaagttc ctccttttaa 2100
 tgctgaacaa aatt 2114

<210> 781

<211> 2165

<212> DNA

<213> Homo sapiens

<400> 781

ttgagtagag acgaggtttc accatgttgg ccaggctggt ctgatctct tgacctcgtg 60
 atctaccgc ctcagcctcc caaagtcctg ggattacagg cagagcccc cagcctggc 120
 cggaagcttt tttatcgtgc atcccacatg tgcccatgtg cctccagtcc acatgtgacc 180
 ctgctcatcc ctccgggttt tcatgtgttt ctgtctcagg catgaattgc ttttaataaa 240
 gtgtccgtgg ggggccgtgt gccccccggg atctctgtgt cttccagcag ccgactgagg 300
 cacatcatgg ccgagatgat cgccacagag agggagtaca ttcggtgctt aggatacgtc 360
 attgacaact attttcaga aatggaaaga atggacttgc cccagggcct tcgagggaag 420
 caccagttta ttttcggcaa cttggagaag ctccacgact tccaccagca gcaattcctc 480
 cgggagctgg agcgtgccg gcaactgccc ttggccgtgg gccgcagttt cctgagacac 540
 gaagagcagt ttgggatgta cgtgatctac agcaaaaaca agccgcagtc ggatgccctg 600

ctcagcagcc atggcaacgc cttcttcaag gacaagcagc gggagctagg tgacaaaatg 660
gacctggcct cctacctgct gcggcccgtg cagcgtgtgg ccaagtacgc gctgctactc 720
caggacctgc tcaaggaggc cagctgtggc ctggcccagg ggcaggagct gggcgagctc 780
cgagccgccg aggtcgtggt ctgcttccag ctgcgtcacg gcaatgacct gctggccatg 840
gacgccatcc gcggctgtga cgtgaatttg aaggaacagg ggcagctgag atgccgggat 900
gagtttatcg tttgctgcgg gaggaagaag tatctgaggc atgtgttcct ctttgaagac 960
ctcatcctgt ttagcaagac ccagaagggtg gagggcagcc acgacgtcta cctgtacaag 1020
cagtccttca agacggccga gatcgggatg acagagaacg tcggggacag tggcttgagg 1080
tttgagattt ggtttcgcag gcggcggaaa tctcaggaca cctacattct ccaagcaagc 1140
tcggcagagg tcaagagtgc atggaccgat gtcataggga ggatcctgtg gcggcaggca 1200
ctaaagagca gaggaaggcg gggaacaccc cccaggcaga gagacctggg cagccaccgc 1260
catgaatgag agctctctgg ctgtccccag gccagctatg ctctgacggc caagcgtggt 1320
ggtccttgcc tgtgtccgag cgtgggggta gttctggaac atttgatcac ttctcctgct 1380
ccactctctg cactccacct ggaactcccg attacacaac tcagaatcca agaaatggca 1440
tccatgggta taggcaacca gccattcatg gatgtcaagc ccagagaccg gaccctgac 1500
tgtgcagtga taagcgaccg ggctcccaaa tgtgcagtga tgagcgaccg agtccccgac 1560
agcatcgtca agggcacaga gtcacaaatg agagggtcca cagcgggtgc ctctctgac 1620
cacgccgcc ccttcaagcg accacactcc accatctcag acagcagcac ctctcttct 1680
agcagccagt cctcctccat cctgggggtcg ctgggcctgc ttgtgtcctc cagcccagcc 1740
caccggggcc tatggagccc tgcccacagc ccctggtcac ctgatatcag agcctgcgtc 1800
gaggaagatg agccagagcc agaactagag acgggcaccc aggctgcagt gtgtgagggg 1860
gctcctgctg tgctgctgag ccgcacacgc caggcctgat gactgtcagg gtggcagtgc 1920
ccatcatgtg gctagaacaa tacagaggga gcagcacgcc aggcctgatg actctggggg 1980
tggcgggtgcc catcgctggt ctggaacgat ccagagggaa tagcacagca ggtgtccagg 2040
tatttcccag gatttttagac attccctaac attttcaaac aagtttataa ttttgtctta 2100
tttaaaaaac aaaccttcca cttccacca agacaacagc ataggaaaca gacctaaaac 2160
aagac 2165

<210> 782

<211> 2351

<212> DNA

<213> Homo sapiens

<400> 782

```
aatacccccg ggttcaggtc atcacacagc caaggcagga gctccacact gacactaagg 60
gtgcatcctg ggctcattca tcagggcatt cctccaaaat atttctccac gtctctctcc 120
tttgcccacc tgcattgtct ctgtgcctca gccccggctg ggggcctgca aggatccctt 180
atatacctctg cccctgcacg gctgggtccc aggccatctg tccgcccacc acacctctct 240
caccttgtcc accacgtccc agcaccacag tcctctttct gcttctttcc cagcctctgg 300
gcttttgcac acgtgtttcc ctctgcctga acaccctcca ctgggctgag aacaactctc 360
tgagacctct ctacgtgtt gcttcccttg aaacagccgc tgctgctgtc actctcccag 420
ctccaagacc tgctgagcct cctgtctttt ttagttccca tgtccccagc acttctcctt 480
ggcctccttt ggcccaattg acaatgtcca ttctcaatgc cttctcacc agcgtgagc 540
cccactgggt gaaggcaatg cctgtcatgt tcaccacaat atcccctccc ccatcaccac 600
gactgggtcca cagtgatgct caaaaaagat ctgttggtag gcaatgtgaa ggtgcattca 660
tgtcatcctg caggcggaat tctccacgag ttttgagcag cctcggtttt cccaccacct 720
ccaaatcatg caagacacag ggtaagagca aagacaaggt ggctgtggcc gatgtccacc 780
ctctcggggc gtcccttctc ttctctctc cttgagcagg gagaccatcg gggtgcaacc 840
tggttggggc ggggaggagg tgcagggcct ggccagagcg ggcctggcca cgggcaaggg 900
acagcgaccc ccgggccagg acaggtgaga gcggcgcagg cccgggcccg gcgtggcgga 960
ggtgcgcgtg agcggccagc agagggcgcc agagagccag gagcggcccg cagaggagcc 1020
cgcgccggcc ccggtgcca cctccgcgcc gcgcggaccc tccgagcccg cgctcagacg 1080
ccccagctcc gccgagaggc cgcttgcgcc gggctccttct tccccaaatg caggcagagc 1140
ccccggagcc atggccagcc cttccggcag ctccaaagcc actggcaagc cccgaggcag 1200
ggatggccgg cccaggaggg aggaggacga cgtccctccc gaagagaaga ggctgcggct 1260
cttgctggag gggggaagcg cacagcccca ggactgcgag gacggggagg acgcgccgcg 1320
gccgggcagg gaggagaccg gcacccagac aggtggcgac ggcagaggag taagtgcgcg 1380
```

gggcgcgggg gtccgggggt gccgggagcg cgggggtgct ggggacgcgg ggtaggggcg 1440
 gcgggaggct ccgtggcctg ccccggtta aagctgggag ggcggccttc attctgaaca 1500
 catttaggca gcacgggcag ccctcctcgc cgtgggctgc atcagagccc ccctgcccag 1560
 tcttgggggtt gctcccgat gctgtctggg aggccttgctc atggtgacat cctcatctcc 1620
 ccgtgcacgt tactgcattc agagcttggg tcacctggac actgaactct gagtgaattt 1680
 tctctgagat cccgggagaa ggaggacagt tctctggaag gttttccagg gccgatcacg 1740
 gaaaggatga gaaggagag gttctggctg gggacacaat tacggtggca gtgtaacatc 1800
 aggaaaacttt attgcgtgaa gtccctctca ctccctctac ctccctcttt tacgtggact 1860
 ctgccaaaga ccaggatacc agaatgcact gcagtgacca aacgtagtgg gaccttggga 1920
 acgcgagtct ggagccaggc ggctgggggtt tgcacacctg ttctgcccct ccttagctgg 1980
 ctgacatggc acaagccact taccctctct gagccttact gtcttcagt gcaaatggat 2040
 ctgtcaacag gccccattgc ctgggggttg tactgctgag attaagggat gctcgtccat 2100
 agaaagactt agcgttgtgc ctggcacata gtgtatggtg gataaatggg acttaggact 2160
 aaaactcatg ccttggtgtg tttttgcagt gatgtttgt tctggggtgc atcacaagag 2220
 acaaggttct tggccgggca tgggtggctca agccaataat ccagcactt tgagaggccg 2280
 aagggggagg atcgcttgag cccaggagtt tgagaccagc ctgggcaaca tggatgaagcc 2340
 tcatatctac c 2351

<210> 783

<211> 1789

<212> DNA

<213> Homo sapiens

<400> 783

agttccttca gtctcagccg ccaactccgg aggcgcggtg ctcggcccgg gagcgcgagc 60
 gggaggagca gagaccgca gccgggagcc cgagcgcggg cgatgcaggc tccgcgagcg 120
 gcacctgcgg ctctctaaag ctacgaccgt cggccccggg actccgggag aatgtgggtc 180
 ctaggcatcg cggcaacttt ttgcggattg ttcttgcttc caggctttgc gctgcaaadc 240

cagtgtacc agtgtgaaga attccagctg aacaacgact gctcctcccc cgagttcatt 300
gtgaattgca cggatgaacgt tcaagacatg tgtcagaaag aagtgatgga gcaaagtgcc 360
gggatcatgt accgcaagtc ctgtgcatca tcagcggcct gtctcatcgc ctctgccggg 420
taccagtcct tctgtctccc agggaagctg aactcagttt gcatcagctg ctgcaacacc 480
cctcttttcta gcgggccaag gcccaagaaa aggggaagtt ctgcctcggc cctcaggcca 540
gggctccgca ccaccatcct gttcctcaga ttagccctct tctcggcaca ctgctgaagc 600
tgaggagat gccacccct cctgcattgt tcttccagcc ctcgccccca acccccacc 660
tccctgagt agtttcttct ggggtgtcctt ttgttctggg tggggagcgg gagtccgtgt 720
tctcttttgt tctgtgcag ataataaag agctcggtag agcattctga ataaattcag 780
cttgactgag ttttcagtgt gtacttgaag gagggagggtg gaggtaaagt tcaccccat 840
gtctgtgtaa ccggagtcaa ggccaggctg gcagagtcag tccttgaag tctgaggt 900
gggcatctgc cttttgtaa gcctccagtg tccattccat cctgatggg ggcattgttt 960
gggactgcag agtgagagt acgttttctt agggctggag ggccagttcc cactcaaggc 1020
tccctcgctt gacattcaaa ctctatgctc ctgaaagcca ttctctgcag cagaattggc 1080
tggtttcgcg cctgagttgg gctctggtga ctcgagactc aatgactggg acttagactg 1140
gggctcggcc tcgctctgaa aagtgtttgg gaaaatcttc tcagttctcc ttgcagagga 1200
ctggcgccgg gacgcgaaga gcagcgggcg ctgcacaaag cgggcgctgt cgggtggtga 1260
gtgcgcatgt acgcgcaggc gcttctcgtg gttggcgtgc tgcagcgaca ggcggcagca 1320
cagcacctgc acgaacacc gccgaaactg ctgcgaggac accgtgtaca ggagcgggtt 1380
gatggccgag ctgaggtaga aagacgtctc cgagaagggg aggaggatca tgtacgcccg 1440
gaggtaggac ctcgtccagt cgtgcttggg tttggccgca gccatgatcc tccgaatctg 1500
gttgggcatc cagcatcagg ccaatgtcac aacaatcagc cctgggcaga cagcagcagg 1560
aggagagac agagaaaaga aaaacacagc atgagaacac agtaaataaa taaaaccata 1620
aaatatttag cccctctgtt ctgtgcttac tggccaggaa atggtacca ttttctcagt 1680
ttggacttga cagcttcttt tgccacaagc aagagagaat ttaacactgt ttcaaaccg 1740
ggggagtgtg ctgtgttaaa gaaagaccat taaatgcttt agacagtgt 1789

<211> 2585

<212> DNA

<213> Homo sapiens

<400> 784

tgaacaagac	gagaacattg	acaccagggc	tgaccataac	ctgatcatca	ggcaggcacg	60
gctctcggac	tcaggaaatt	acacctgcat	ggcagccaac	atcgtggcta	agaggaaaag	120
cctgtcggcc	actgttgtgg	tctacgtgaa	tggaggctgg	tcttcctgga	cagagtggtc	180
agcctgcaat	gttcgctgtg	gtagaggatg	gcagaaacgt	tcccggacct	gcaccaaccc	240
agctcctctc	aatggtgggg	ccttttgtga	gggaatgtca	gtgcagaaaa	taacctgcac	300
ttctctttgt	cctgtggatg	ggagctggga	agtgtggagc	gaatgggccg	tctgcagtcc	360
agagtgtgaa	catttgcgga	tccgggagtg	cacagcacca	ccccgagaa	atgggggcaa	420
attctgtgaa	ggtctaagcc	aggaatctga	aaactgcaca	gatggtcttt	gcatacctagg	480
cattgagaat	gccagcgaca	ttgctttgta	ctcgggcttg	ggtgctgccg	tcgtggccgt	540
tgcagtcttg	gtcattgggtg	tcacccttta	cagacggagc	cagagtgact	atggcgtgga	600
cgtcattgac	tcttctgcat	tgacaggtgg	cttcagacc	ttcaacttca	aaacagtccg	660
tcaaggtaac	tcctgtctcc	tgaattctgc	catgcagcca	gatctgacag	tgagccggac	720
atacagcgga	cccatctgtc	tgcaggaccc	tctggacaag	gagctcatga	cagagtcctc	780
actctttaac	cctttgtcgg	acatcaaagt	gaaagtccag	agctcgttca	tggtttccct	840
gggagtgtct	gagagagctg	agtaccacgg	caagaatcat	tccaggactt	ttccccatgg	900
aaacaaccac	agcttttagta	caatgcatcc	cagaaataaa	atgccctaca	tccaaaatct	960
gtcatcactc	cccacaagga	cagaactgag	gacaactggt	gtctttggcc	atttaggggg	1020
gcgcttagta	atgccaaata	caggtgggtg	gtaagtgtgt	gtttgtgtat	tttccatcat	1080
ttaaagtgtt	catttttaca	cagttacttc	ccatcagatt	cattttatga	tgtttactct	1140
cccctcatca	gacctgcaaa	cactgcggct	ccactagtcc	acttgattta	cacagcaaac	1200
cagaaccaat	gctgagatta	gattttgcag	tcttcatctc	agcatggatt	gaatgctccc	1260
tttgattccc	tgtagagct	gataactata	tttgacctga	aggtttgggt	agtccccagg	1320
ctttaagccc	ctttggagta	tatttcctag	gcatgataag	aaagcactga	aaaaattctc	1380
tggcatgaca	gaccagggcc	ccatgtttat	acctaagcat	ggtttatgta	ctagtttgat	1440

aatttagata atttagtgaa acgacatctc atcagtaact gacctaataga acactccata 1500
gcccttgcta tagtgttact ttctggtagag caacgatgag gggttgttgt agagttgctc 1560
ttttgaattt aaacttcagt tccagggcta tgtcagtata atgaattctc acatattttg 1620
ttcctccttt tagctggaag agaggagatt ttcgatgtgt ttgacatga tacttaaagt 1680
atccagccca gatcactttt aaaatgatat cctttctatg gattagtttt caaagttgct 1740
gcctaagacc taagtggatg gtagacaagg tcaatttctg ctcggaattc taagcaatga 1800
gaattaggta gtgcactgaa gcaggtagtg atctgttggc tgctaagagg gaagagtatc 1860
tgttggatct gtaagtgttt atcaaacaac aggtcagcat tgagtcaggg acattatagt 1920
ctagacagat gtctctctag ggtggagcta accaacctct caaatcgagc atttcattcc 1980
ataaataaaa tctgtaatag gactagtctg attctacat tctagctaac tgaccctct 2040
agtagcttag agactggaga ctgaaattca tttctagttg atgaatgttg tcttgttctc 2100
ccctagagca attacttct taaaatcttc atttcaaac atattttact tcatcaaaat 2160
agccctcaat ggcagccgta attgaatgg tttgtttttt aaatttctaa ttctctaaat 2220
cttcattggc caatgtttta ggacatggta aggatctttg ttcaaatgtg tatgcgtgtc 2280
aatgtgtgaa tgcctacgca tgatttaatt cttccagttg ataattggaa gataatgagt 2340
caatcagaca tatttaccaa ttaacttttc tgtaagaatt cataaactag acatgtgagt 2400
cctgaggaaa gaaaaagaat acaacccttg ccctaaagaa cacgacgtgt cagaattata 2460
taaaatttgg cagggtgtag tggcacacac ctgtagtccc agctactcag gaggctgagg 2520
tggggaaatc gcttgagtct aggaattcga gaccagcgag ggcaacatag caagttgctg 2580
tctct 2585

<210> 785

<211> 2954

<212> DNA

<213> Homo sapiens

<400> 785

agagcccgcg gcgggggaag ccgcccctct cctctgtcca ggcgctgggt ggtccatccg 60

cctggtcacc ggccactgcc tctctcccaa attcctccga gggattcccc aggagtgcgc 120
tcggactggg ggggtgagca ggaactccct cccagtcacc cgaggctcct gcgccccgcc 180
cgaagccggg ggtgcgtggg gagtggtgcg cccgcggaag ggctccggga cgggaacccc 240
ccttggagcc tggctcttgg accagccacc cgccgtggcc cctcagtcgg ggacgcgggc 300
ccccagaagt ctggggctct ccaggaagcg aagcggatgg aagattactc ggctcgggggt 360
cccgggtccc cacccccgcc ccgcccccg gccgcagcgt cacaaaggcc gctggtcccc 420
agggcaaccc gcggagtgcg gagggaggct gggctctggg aagtccgcgc gcggctccgc 480
ttcagaggca gggcaagtgg gcgcggctct ggggcggcgg cgggggcccgg gagaggaggg 540
ctgggggtct cgagaaggta aggggcaggc agagcggccg gggaggtggg cccgggccag 600
gggagccaag gggagtgtgg tggaggggggt agagtgcggg cacctggtgg tctcagggaa 660
gcgggcctgg gaccggggcg tgtaggaagc agcgaggggc tcagaaccac ctttccgggt 720
tcacgaccag cctctctggg tgttccacct gggcagctgc tggagactag aaaacatccc 780
tcacacgtca cagaggcacg gtttccctcc agcggtgaaa tccgccccag cctccagcaa 840
gagcagggt taggcctggg gtcctgggggt cctgctctca gctggcacct caccacagac 900
acactccctg ctgccccag gggcctgttc tcgagggatt cccgaggagt gcgctcgtga 960
agtcatatct gcctcacgcc caaaagggca acccttcccc ggcagatatg acttcaccac 1020
gtacctgtgt ggccctgggg aactcagcaa ctgcttagct ctcatttgtg ggtcgtccaa 1080
ggcccaagt gctgtgacaa cctgagatct ccagggttgc tgggagccgg ggcagcaacc 1140
aggggtgcgg cttgctctcc agggagctgc ggcagagcct ggggccacag ctgcactcag 1200
ccggtgcacc cacggacaga gggtcagact cggctcagca ctgggctcaa gccctggatg 1260
agaacaagaa ccaagcttct tagcctcagg ctccatctgg gaaatggagt gtcacttgtg 1320
gagtccatga gctcaccagg gacaggatcc cgggtccaca gcgagggcc acagcgtggg 1380
aggagggtg ctcctccggg cccaggcctg ggcgcctcc tccatgctg accggccagc 1440
tggcctcgtc tttggtgagg cctgtctctg tgccctacaa ctgcggtgag gcgtggagcg 1500
tccccaggga gaaccggagc gggaggatgg cccgcgaatg tccccagggg ggatcctgtg 1560
ctgcttagga ccacgccgtc cctctccac ggccccgagg ggtgccagca acccctttca 1620
gcagcagggt taggaactgg ggcccttgca aggccacagg tcaggcggtt ctggccagaa 1680
gtccgcagtc ctagttcttc cctgtcctgt cccacaggcc actggttgtc agtagagggt 1740
tttgccttc agtataaact gtgtccagat ctgtaggctg cccatccagc cctccaggca 1800

gcctcttccc atcgagttgt gccccgaag aaggacagag gtccagcatg gggtcagtgg 1860
 gctgaatcca tccccgaac atgccacagc ccaggggagg ccagcctgcc tggcagctga 1920
 caccagccc tccccagc tcccggataa tgagcaccca tgtggcaggc ctgggcctgg 1980
 acaagatgaa gctgggcaat cccagtcct tcctggacca ggaggaggca gatgaccagc 2040
 agctgctgga accagaggcg tggaagacct acaccgagcg ccgcaatgcc ctgcgtgagt 2100
 tcctgacctc ggacctgagc ccgcacctgc tcaagcgcca ccacgcccgc atgcagctgc 2160
 tgcgtaagtg ctctactac atcgaggtcc tgcccaagca cctggccctg ggcgaccaga 2220
 acccgctggg gctgcctagc gccttggtcc agctcatcga cccctggaag ttccagcgca 2280
 tgaagaaggc gggcacagct cagaccaaga tccagctcct gctgctcggg gacctgttgg 2340
 aacagctcga ccatggccgt gctgagctgg acgccctgct ccggtcgcca gaccacggc 2400
 ccttcctggc cgactgggcg ctgggtggagc ggcggtggc ggacgtgtcg gccgtcatgg 2460
 acagcttcct gaccatgatg gtgccggggc ggctacacgt caagcacgc ctgggtgtctg 2520
 atgtcagtgc caccaagatc ccgcacatct ggctcatgct gagcaccaag atgcctgtcg 2580
 tgtttgaccg aaaggcgctg gcggctcacc aggactgggc ccggctgcgc tggttcgtca 2640
 ccatccagcc agccacatcg gagcagtatg agttgcgctt caggctgctg gaccgcgga 2700
 cacagcagga gtgcgcccag tgtggcgctca tccccgtggc tgcctgcacc ttcgacgtcc 2760
 gaaacctgct gcccaaccga tcctataagt tcaccatcaa gagggccgag acctccacgc 2820
 tgggtgtacga gccctggagg gacagcctca ccctgcacac caagccggag cccctggagg 2880
 ggcccgccct cagccactct gtctgagaga tgattttcta atatttatcc actaataaag 2940
 aagagtgtaa atgc 2954

<210> 786

<211> 2766

<212> DNA

<213> Homo sapiens

<400> 786

gcgtttttgt tcccctcccc ccttcagcaa cgggcccgtga ggcggtggcg gtgggtggcg 60

tggcgggtggc ggtggtggtg gtggcggcg cggcgaaggg ggcgagagg aaggagcgcg 120
gcgggaccgg gccgggacag cgcgtacttt gggctccggg attcgctccg cgcccgcggt 180
tgtagcagct gccgctgcag ccatagcagc aggacttcct caagcgcagg gactatgtct 240
taaggcgctt tgcagagcca agctcatttc tggcacataa gaggtcagtc attggcacca 300
tgaactggaa taaaggtggt cctggcacta agcgaggatt tggctttgga ggttttgcca 360
tcagtgtggt gaaaaaggag gaacccaaac tcccacagca gtcccacagt gcctttgggg 420
caaccagctc ttcttctgga tttggaaagt cagctccacc acagcttcct tctttctaca 480
aaattggatc taagcgggccc aactttgatg aagaaaatgc ctattttgaa aatgaggaag 540
aagattctag caacgttgat ttaccttaca ttctgtctga aaactacca actcgccagc 600
aattccattc caagccagta gattctgaca gcgatgatga tcccttgag gcattcatgg 660
ctgaagtgga ggatcaggca gctagagaca tgaagaggct tgaagaaaag gacaaggaaa 720
gaaaaaacgt aaagggtatt cgagatgaca ttgaagagga agatgaccaa gaagcttatt 780
ttcgatacat ggcagaaaac ccaactgctg gtgtggttca ggaggaagag gaagacaatc 840
tagaatatga tagtgacgga aatccaattg cacctaccaa aaaaatcatt gatcctcttc 900
ccccattga tcattcagag attgactatc caccatttga aaaaacttt tacaatgagc 960
atgaagagat aaccaacctc actccacagc agttaataga tctccggcat aagctcaatc 1020
ttcgggtctc tgggtgtgca cctcctagac caggaagtag ctttgctcat tttgggtttg 1080
acgaacaact tatgcaccag attcggaaat ctgaatacac acagcccact ccaatacagt 1140
gccagggtgt gcctgtggca ttaagtggta gagacatgat tggattgcc aaaacaggta 1200
gtgggaaaac tgcagccttc atttgccca tgttgattca tataatggac cagaaggagt 1260
tggaaccagg tgatggacca attgcagtga ttgtgtgtcc taccaggag ctttgccagc 1320
agatccatgc ggaatgtaag cggtttgga aagcatataa tcttcgatca gtggccgtat 1380
atggaggagg gagtatgtgg gagcaggcca aggcccttca ggagggggca gagattgttg 1440
tgtgtacccc aggtcgactg atagatcatg tgaaaaagaa agctaccaat cttcaaagag 1500
tctcttacct tgtgtttgat gaagcagatc gaatgtttga catgggattt gagtaccaag 1560
ttcgatccat agcaagtcatt gtctgtcctg acaggcagac tctcttattt agtgcaactt 1620
ttcggaagaa gattgaaaag ttggccagag acatcctgat cgaccctatt cgagtgggtgc 1680
agggagatat tggagaggca aatgaagatg tgacacagat tgtggagatt ctccattctg 1740
gacctagtaa atggaactgg cttaccggc gtctggtaga atttacctct tcagggagtg 1800

tcctcctctt tggtactaaa aaagccaatg ctgaagagct agcgaataac cttaaacagg 1860
 aggggtcataa tcttgggctg ctccatgggg atatggatca gagtgagaga aacaagggtca 1920
 tttcagactt taagaaaaag gacatcccag tcctgggtggc cacagatgtt gcagcccgtg 1980
 gtctggacat tccttcaatt aagactgtca ttaactatga tgtggcacga gacattgata 2040
 cccacacgca taggattggc cgcacaggaa gagcgggtga gaaagggtgtg gcctataccc 2100
 tactcactcc caaggacagc aattttgctg gtgacctggc ccggaacttg gaaggagcca 2160
 atcaacacgt ttctaaggaa ctccatagatc tggcaatgca gaatgcctgg tttcggaat 2220
 ctcgattcaa aggagggaaa ggaaaaaagc tgaacattgg tggaggaggc ctaggctaca 2280
 gggagcggcc tggcctgggc tctgagaaca tggatcgagg aaataacaat gtaatgagca 2340
 attatgaggc ctacaagcct tccacaggag ctatgggaga tcgactaacg gcaatgaaag 2400
 cagctttcca gccacagtac aagagtcact ttgttgcagc cagtttaagt aatcagaagg 2460
 ctggaagtcc tgctgctggg gcaagtgggt ggactagtgc agggagcttg aattctgttc 2520
 caactaactc agcacaacag ggccataaca gtcctgacag ccccgtcacc ctcaatatat 2580
 ctggattatc cgtgtcattc agctgcctcc tttctgggtc tcttgctgct gctgggatgt 2640
 gtgtatgtga ggggtcttctt cccatacccc ttgcacctgg tgcctgggtgc ctcaaaagg 2700
 ggtgtgtccc ttgccaggcc actctcaaga atatctatgt acagcaacaa tataactcta 2760
 caaggg 2766

<210> 787

<211> 3691

<212> DNA

<213> Homo sapiens

<400> 787

tctgtcttct taaactgcag ttatTTTTga attataattt ggTTATAaaa atcatggatg 60
 ggccaggcac tcacgccagt aatcccagca ctttgggagg ccgaggcgagg cggtacacct 120
 gaggtcagga gtttgagacc agcctggcca acatgggtgaa accctgtctc tgctaaaaat 180
 ataaaaatta gctgggcaca gtggcacatg cctgtaatcc cagttacttg ggaggctgag 240

gcacgagaat cccttgaccc caggaagtgg aggttgcagt gagatcgca cactgcactc 300
tagcctgggc agtagagtga gactctgtct caaaaaaaaa aaaacatgga tgaatgtttt 360
aatgagatg ttcttgattt tctgttttcc gtacttgaat ttcaagcggg ggtttctgaa 420
cttgcacagt ttcaaccagg cactcaatca cgggcgtatt ccgaggaggagg ggttttttagg 480
tctgtgctgg gacttgttct gcacttctcc accctttcca gggatgggaa agtcaagtat 540
atgtcataac ttatccctgg ggaaccccgagg agccttactt ctgactcttc tgcggcccat 600
tgcaggaaag cctgactaat taggaactgg attgaatgtg ggggtggggtg ggttttcagtt 660
cttagttacc tggtcacaga agtgggaagg agaaatctgt ctacattgtt ttctttgctg 720
gagcaacat ccaagggaaa ctttttaaaa tctttcccag aaaaagattt tatttatgat 780
ggagaatact gatatttgtc agcaatttat gtttacataa aaataagttt aatgattaaa 840
atgattgtct tctcctaate cagtcattca atctttctga agtttcagta ccttggggac 900
agattgacca acatttgtat ctttgttctt aacgttccct aacggcatat tttaaactaa 960
actgatgtga agctaacttt tccttgaatt tctgagaatt ctttgacttc tgaggtagtt 1020
ggtataatac ttgggctctt acaaaaccag gattgggaat ccctgctgtg gatctgtcat 1080
ctttgctgtt tcttctccaa tattcttctc cctcacagat gacctttcac cccctcaag 1140
gttttccagt ttctattctt tctcactctc tgctttttca tttctagtac ttcatagcca 1200
ataagctcag cagttgttgt tgatcattcc ctcaaggatg cacgaaacct gtttattatc 1260
aacatgtagt gatttttttt ccattaaga ttggctacaa aataaaagtg tgaaatacgc 1320
cagacatcct gacagtaaag gttagctcag ttgatagtca ttgtctgtcg catgtctggc 1380
tggaataattg gaacgtcggg gtttgcgtgt tggtgtgagt ccagtttaaa aaccaacgat 1440
gaccttaggc aatggcagga ttcccttagcg gttgcttggg tcacaagcct agacctgaaa 1500
gtaccctcta aactttctgc attctcattc ctgtagcagc tactgcagcc aaccaaatcc 1560
gcgccccacc cctgacttcc catgtggagc cgggtgtgcc aggtatatgt cacaaggcca 1620
tgccccggga cgggcagcat cacatggcct tccctgaccc accctttggc tctgtctgtc 1680
ccagcccttc tctagagagt agtgtccac ttcaggtcac cagctgctct aggggcagag 1740
gtaccctctt ttcatggatg ctaataacaa agaacaacaa tctcagaagg gaacataaga 1800
accgatttat ttggcttttc tgatgttggg cagatcagtg aaggatgctg ttgtgctcca 1860
gtcactgaca tttttcatag aacattaccc caaaggacac agaaatgatt ccaaaaaatg 1920
tagaagtctt tgcctagtag gtcactgcaa agtgctaaaa tctgaagaaa ggaagagcag 1980

ttcataaatg cttatcttca cattgttcat tgggctgccc taacctcccc tgctcccaga 2040
gaatgccaga tggctttaca attgaggtgg ttcaaacaca gaaggccctt tttcctttta 2100
ttaattgctc agctatgtgt acattggccc ccacacctgc cacctgacca gcgcggcttc 2160
tgctccctc agcactgcca gccgggggtt ttcttagact catcccctgg gccaccttcc 2220
gctcctctcc ctccctctgc attaacatcc aggccaccct cattactcct tggcaaccta 2280
gcttgggttg gcctccccag ccagccttcc agactattct ttctctccct tgcagcctgt 2340
cttgcacacc actgtggcca ggtcagtcct tctgagaata ccatttctc acatcatggc 2400
cctggttaca aagcagtttc ccatttgcct atcacatcag atcaaatcag aactcttcgg 2460
ctctggattg aagccgacgc cactgttctt ggcaagcctc attgccctcc gatcccggcg 2520
ttggcctccg tccctgtcag gtcttgtacg atgctgctct ctgccatcct gccgtctcca 2580
gctctgcctg catgttggtc ctgcattgct ctccacctca cagactctta ttccacggct 2640
ctggccagtc caaagcatac atggcccagt tagttccctt ttacttgaaa tattccctga 2700
ggagccccc aagtattttt cttactcact ggagacttgt agtcagggcc aactgatgt 2760
catttgggaa ttatttgcaa agtcacagat ctggacttct ctctccagct aaatcatgag 2820
ttcctcagct aaatcacggg cccacagttc tgcagcagct ggtaaact tttagtcacg 2880
gaaggaagcc tttttcggtt ctgagctctg ccaaggaact tatttcacgt acacaaaacc 2940
acaaaccgtg agaggattgc tgctgtatc ctgttcccc tcactttttt ttttctttga 3000
aaagatggta aagctgatta taagaattta aataacgtgg ccctagaact acactctgac 3060
tctgatccgc gtgtcctgcc cacagcacca ggccacgaag acagaccatg tgcctatcct 3120
cacatttgc t gtaacttag gaggttggc agtaaaatcg atactaacag tggacgtact 3180
tctctttgaa taagtttatt ctatttccct ctcccatttt ctttatttgt tgaaaagaat 3240
gatgctgatt gagaagccaa atattgttaa ccattttccc cgtctggcac ggttcttttg 3300
cacagcactg gattaggcca ggggactggc ctaaccctgc aaatatcagg aaaggactct 3360
tctagggaaa gtcgtactaa tttgaattga tctagaaa tacatggtct ccacctaaaa 3420
gatgctttgt cacttaaaag gctgagtagt catcataatg taaagaaacc tctattgtca 3480
tgcaaccatt tgcaccaga catttgtcct ggttggcact taacatttta tcaattgatt 3540
ctcacaccac ccttgcaatg tgatgaaacc aaggctccta ggtgctaagt gacattcccc 3600
tagtcacgca gcctagtgt agtcacgcag cctagtggta gagcgaggat tcaaaccag 3660
tttttgtttt cctttgagct ggagctgcaa g 3691

<210> 788

<211> 3129

<212> DNA

<213> Homo sapiens

<400> 788

ttaaataacc	aatgctaaa	agaactggca	tagaagtaaa	tgggctgctg	ctttatTTTT	60
aggctgttct	tttagagag	caatgacagt	tatttccaag	ttgtcatta	gaaaataata	120
ttaggttggg	gcaaaagtaa	ttgcagtatt	tgccattgct	ttcaatggta	aaaggcacia	180
ttacttttgc	agcaacttaa	tattataaat	ttgttcctta	aagtgtattt	ttgataagaa	240
agcccttttg	tttttccttc	tgtaattttt	ttgtcttttt	cttggtagag	acagagtttt	300
gccatgctgc	ccaggctaga	gtgcagtggt	gtgatctcgg	ctcactgcag	cctccacctc	360
ctgggctcca	gcagtcctcc	cacctcgacc	tccctaagag	ctgagactac	aggtgtgagc	420
caccatgcct	ggctaatttt	tagagacagg	gtttcaccct	cttgcccagg	ctgggtcccaa	480
actcctgggc	tcaagcagtc	ctcctgcctc	agcctcccag	agtattggga	ttataggtgt	540
gagccactgc	cagaaaaacg	tttcctaaga	caaggcaggt	cttacattat	atttaaattt	600
tttttaatga	tgtctttttt	ggcagtgcac	agccagagaa	caacacatca	cacacaagaa	660
acagttgtgc	tcatgtgatg	ggggcctcag	cactaggaag	gagtggactg	ttggtgcacg	720
cagcagcttg	aataaatctg	aaagtcacta	tgctgcgtaa	gagaagccaa	ataaagcgca	780
tgctgtgtac	agagggtgtc	gagaatgcct	cctacgtgac	ggaaagcaga	tccgtggttc	840
cctgcagact	ggcaggagca	gattccaaag	gcacaggaag	aagcttgcag	gtagaatgtg	900
ttcattacct	tctgcgcatt	ataccacaaa	aaagctggga	ataaaaatgc	taaccaaaaa	960
aaaaggtgaa	agtagataaa	attttctaac	tgtgtgatgg	gtaaacgtgc	aggtttgctg	1020
tcatgctttg	tttatgaagc	tgtgggggtac	aaggactctc	atggtcactg	tggaatgcag	1080
aacgttgcag	cctcatggaa	gaggatttgg	cagcatctaa	caaaacgaca	tggcattttgc	1140
ccttagactc	agcaattcca	gaatctgcct	caaaaaaac	tctggcaaag	aaatgaaagg	1200
actttacca	cagagttctt	ttcacagcct	gaatgtgttt	gccacaaagt	tcttcactgt	1260

ggcatttgta aaactggaaa caatcaaaat gtccatcagt aggggattgg gaacattaat 1320
tcgtgcagtg gggaactccg taccagaagg aggaatgagg aacgcctatt gataaggggc 1380
agagtacata taatataatg ccaatatttg ctttttctta aaacagtaca aagataaaaa 1440
tctaaagtgg ttgctgtgga ggacaggggt cagtgggtgga agtgagaccg aaatagactc 1500
tgaagtaata tctggacttt gaaattgtaa gtgttttaca tattaccaa ctaagttttt 1560
aagatagtcc ctaaaattga aagaatggta tctgaaatga atgaatctaa attccttgga 1620
ttgcattcta caggcgccaa ccctgagacc aaaatttgga aggtggccct gagcagcagc 1680
tgaagggaag tgggaggtga gacaggaaag aggcggcggc atggggcgtc cgggagccgg 1740
gtcccatgtg gacagctggg cccgtgctca ctgtgggagc tgggtgcgtt cttcaccagc 1800
ccacgtgca caggttcagg atggtcaatt ccgggcaccc ctggcctgct ccaggacatg 1860
ctgctgccac cagagaaagc ccctaggcag cgtcccgggt gctggtggtg tcagaatcga 1920
gtttgagtct gaggagtgc ctggggctgg ctgggctagg cagcatcacg gggttctgca 1980
gccaactgc acatcaggct ggtgacagtc acgcagccta ttacttcag tgatcatcaga 2040
ggatcgctag aacacagcac ttcaagtgtg cagatttagt gagccatagt ctaaagacaa 2100
atagagccac tgaatcctaa atttcaatca atcatctccg ttgctcatct tatttggtatt 2160
aatcctttga aattatgtgg ggtgggagtt aaagctaata actaattatg ttaatgctaa 2220
aactaagatt tttctggcaa gggaaaatcc tccaagtcc cagcactttg ggaggccgag 2280
gcagacagat cacctgaggt caggagtttg agaccagcct ggccaacatg gtgaaacgcc 2340
atctctacta aaattgaaaa attagctggg catggtggca ggtgcctgta atcccagcta 2400
ttggggaggc tgaagcagga gaatcgcttg aaacaggagg cagagattgc agtgagccga 2460
gattgtgcca ctgcactcca gcctgggcaa caggaacaaa actctatctc aaaaaataaa 2520
acaagatttt tctgagaaaa aggtgtaaaa ccgtatacta aatttgaaat agaaatataa 2580
gcgtgaactc atttgttgtt cttttaccgt agacacattt cctagtcttg cccagtagc 2640
agtagacaca tcaagcacct agaaagtggg ctctaataca tgaaaacat gaattcatag 2700
tgatggtttc aaagccaaaa ccaaccaacc aaacacatgt aattgggtcac tcttgagggt 2760
acctagggca ctaactccta acactgggaa tggacacttg aaggaagatc agtgattatc 2820
ctgtcttttc tctacaaatt gcaattcagg gaaacctgtg tgattaggga aggttcttta 2880
cataagaatt cctgcaaata agtgagtaaa gaatgacagt ttaagaattg tctcagcctg 2940
accaacatag tgaaacccca tctctaaaaa tacaaaaaat tagccaggca tgatgggtggg 3000

tgcctgtagt cccagttact cgagaggctg aggcaggaga gttgcttgag cctgggagat 3060
 ggaggttgca gtgagccaag agtgcgccac tgcactgtag cctgggcaac aagagcgaga 3120
 ctctgtctc 3129

<210> 789

<211> 2718

<212> DNA

<213> Homo sapiens

<400> 789

ggatgaggat gccaggcact ctgcttttcc taaacaactt ccaagaaccc cggaacattt 60
 cttaaagtgt ctggaacgaa gctttaacct cgcttctcc atcagcctgg gacggaaaag 120
 acgcgagggg cgaagaagag gtggggcacg gggagcccgg gccgttcggc gtaagtgatc 180
 caggcttcca gcgccccggg cgcaccccg cggaaaggcgt ctgggagtcg gggacgtgcg 240
 gggggagacc acccggccaa ccccggggga tgagctgcaa ggctggccac gcccggcagg 300
 agactgcgcg cagagacccg cccggggaag cacgggagga gggagggcgg ccatgtacaa 360
 cccctggcag gtgggagcct ccctggcgcc agctcgggca gggccacgcc ctttcccaac 420
 tccccgcgct cggcctccgg actgctcagg gggccacgcc cttccggat tccccgcgct 480
 aggcctccgg accgctcagc ggccccgccc cttctcgagt tctccgcgct cggcctccgg 540
 acggctcagg gggccacgcc ccgtcgcccc gggccccgcc cactcctcaa gccccacggg 600
 actcccagcc tacctccctc ccgctgccgc actggactcc cagacctcg caccaaccgt 660
 atctcctgtt actcgcccc aagggtgtgc ccggggaaaa actccaaggg tttactggc 720
 tggcctggaa accctttcat ctttgctcca tcagcagcag ctctttgatt gagttctct 780
 ggcttttagag cctcccacta tggatcatgt gcaaattccc gtggccagca cccgaggcct 840
 gctggctccg atctgggcca cgtgtacaac caggtgtgcc cccttagcct cagccctcc 900
 tcctgttgcc tccccatccc tctagccttc gggacttggg gttgcaatga atcttaggtt 960
 ttttccagga gtcttttatt cctccagcgt ctccgtgcgc ctgtccgctc caacacctga 1020
 cattttcctt caactccacc ctccccctcc cgagtccaca gacacacacc caccacacg 1080

cctcttccct tcccctccac cctcagtcag cggcagagtc agtccatcca ataggcagga 1140
gccccaaaaga ctgtccacgg acagctgtcc tctcgcccag gagagtgggg ctgcacacag 1200
cagcaggccc aggaggaaat cgtgctttga tagccccagg catcgtattt catcgtattt 1260
cacaagtgag ccaaattggag aagggttag ctgtttcacc caataagccc acatctgtag 1320
ttacattctg actgggataa aattaccctg gttattaatc cttctgcttt agggcataag 1380
ctgatcacca gctgggggtca ggaaaaaact ccaccccagc tccttccaac ttgctcccc 1440
atcctcagct gctccatttc ctgtggtcta ttcttgaca gttaggtcta caagccaggt 1500
tcaaggccac caactgaggc acctgtcccg agacaggacc attctaattc gccctaaaaa 1560
ggacatccca ttgatcatgt aagtatgtac tgagaatcta ctgtgggcaa gacattggtc 1620
ttcgtgtgg gagatacaaa aaccattcag gcatggccct tgcctttttc atgccaagaa 1680
aagctgaagt gtgtgggtcag aaattgcatg tggtttctgg gacttactgc cctgaagcac 1740
cctgggtgta tcggatggcc tcagggaaca cagtttgggt atgggcagta ttttcattgcc 1800
cattgccatt cccttctgcc tcaagtgtat gtgggctttc cctgcagtca gccagcaggc 1860
caggccaggg tggctttgtt tctgtctctg accctttctc ttcagactcc aaatctgcag 1920
gtgctggaga ctttgaagga gtctccgttt cccttggttag aaacaagagg taggaacaag 1980
caggtggaaa gccagggtta ctcttccag ccaatgggtc tggggctgca gcacacaaag 2040
ttgacatccc gaaaggccat tttctcgat cgcttcagac ctggcattgg gtggacagac 2100
cacatgattc agcatccaaa ttggagatct ctcaataaca gaaagagggtg ccattgataa 2160
tttctggaa ctttctgag cacaccaggg tgtgctcatt cttcctgagg ggtcatctcc 2220
cttgggcatac gtaagaggca ccaactgagac acaacagctt ttgtcaccat ttcccaattg 2280
tgtcccaagc tctctgtcct cttccctgtg ctggctcatc cacagtcttc ttctgcaggt 2340
agatcccccc tacttcagcc cttctccca cctcagctcc tttgttcccg ctgccatgcc 2400
cagaacaacc tatatttcca ctctccaacc ttggatcaac ccaactgtgt tttcacgcta 2460
ctatgtccag gatactggat gatactagag atagccatca gtaacattca ttacatgaat 2520
aagtctgggt tgatcctgtg acacagttat gccttctacc ctctgctgct tctcaacatt 2580
gctcagtcct tatgttgggtg ttctcatttc acatgataga gttccaaacc tttttagacc 2640
cgaatcgtca tctatccct aattcttggg aaagacccta acttcaccaa tagcaacaac 2700
aatcaaaacc aactgaac 2718

<210> 790

<211> 2552

<212> DNA

<213> Homo sapiens

<400> 790

```
agcagcagag accggcagcg gcgggcggcc agcgtgggct actgctgggg gctgcgttcg      60
ggcagaggagg ggagattctg tctcagaggc ctcgggctgc acgttcttcc gggccgcgca    120
tttgagccc acagcaggcc ccagccggcc cctctggagt tgggccactg cttctgcagg      180
cccagcaggc ccctgggggc ggccggaggc cactaactgg cttctccagc tcagcattct    240
tctctcattt gctgggtacc ccactctctt ctctaccccc ttgaaccatc tttaccctca    300
ttcctcaggg aacgtttaac gagttgaatg tttaccatgt agtcactcta tatggaaatc    360
ataattcaat tttgtaaaca tcagactttg acaaaacaaa tgatgatttt cttaaggaaa    420
gcagagagac acagtgtgaa atcgctgctc tcagatcagc acacgggaga ggccagcagt    480
caggagggggg ctcaccgagt ttgtctgcac tcgctccctc cgcagccgcc ctctccagct    540
ggaagaagtc gtaatcgaa ctagctcaggt cctcactgcc ccactccgaa ggaaacccca    600
cgtacaggtg aggtcagagg agtgaagtga cttgcccaag accacacagt gagtcaggag    660
caggcctgtc cctccagcag tggtgccatg ttgtcccca gcatggtgg cagaggagct      720
ggtgtgaacg ccccatcctg ccacgtctgt gatgtgggca cctcacatga ctgtcccctc    780
ccagctcttg ggggggacct aggacattct gtgagcctgc aggaaagttt accaaatgct    840
gcagctttgt cctggtggtg atgggcaccc cgtaaacggc aaccttgcat ttgctatgtg    900
gagtgaccgt cactttaccg tcggcatttg tgaaggaagc gtgtttatct gaaattctaa    960
gaagatgaga gtcaaagaca cccagcaaac ggcgggtttcc gtgagcaggt aggctgacct   1020
ttctcgtgtg cacaggaggg aaggtctaca gctgcggagg atggcaggtg gcatctcggg   1080
gcctcctgtg tgctgtggcc catgatgcat ggggacagca gcgggcgcag aaggaccctg   1140
cccttgggga gcacggagag ctgggagaca gcaggcaagg gcttcattaa cagaacgaac   1200
accagctgag ggcctagcac tgcggggagc cggccaaggc cacactggag tcctcccgtc   1260
cccaggccag cgggatgggg tggtgggaag atggcagcaa gcaagcttca gaagagacgc   1320
```

tcaggaggcg actcttaacg agcctcacct actccgggta cgttttgatc tgtttctgcg 1380
ccctcgccgt ataaattcag accttatagg atttggggct ggacgtcggg gtgtcaggtt 1440
ggcatccccct ctccccgccc tgctcccctg caccgatgtc atctgtgtgt cctgaatgac 1500
tggtccctg ccttagcatg ttccatgttc ctgcactcct tggccatcat ggaatgttct 1560
ggatgtggag acccgtgtgc atccaaaccc ttttttgcac ggggcccagg gatcctgtgg 1620
gaaaggttgc ggcctcatca ctggagtcca gacatttacg cacctgtgcg ttggactaag 1680
gacgtgttct ggaaaggac ttgaggggga tccccaggaa gatgtcccaa gaaggaggct 1740
ggcagtgcag gacgaggcgg ggccagccgg cccctgggtc agcatccctc cagccacgac 1800
ggcccgtggg ctttcgtacg ggggcagggg gtgatctgtc tgaaggacgt aggtgatggt 1860
gcttcccagc tggagagctg gaagcaggag gaggacactc cagcagcagc ctcccaggca 1920
gggcagccat agagctgggg acagctcttg actgggtgag gcccggcagtg gggtttccca 1980
gggctcctgc aggggcctcc tgaggagacc cttggggtca ctccacagtc tgggctttct 2040
gtagtccggt gggtcagggc tccaagcacc aggagagatc cagggatgcg cttatgtttg 2100
ggccaccccc ggtgggcttg ttcgttcagc ccccttcgtt tcctggcctg ctctacttat 2160
atctgtttgt gaagaattat tacacagaat ctagaaacca gctttccctt ttctcccagg 2220
gttggagccc aggaagcaaa ccagcactgc accctagatt tcagccagag gacgaaagcc 2280
ctgccctcag ctttctcaga ccagccctgg agtaggtggc ccggggagac ctgggcagtg 2340
tccctgcttg tcctgcagac tgtgtggctc tgcagacctc tagatggagg aggacaatt 2400
ctctaagtct ggacaggac actgatcatg gaaactcacc ccaaaccttg aatcgtgata 2460
gcatttgagg cagcctgacc ggtgccacat gaacctgaaa ggaatcaaga tataatttat 2520
tttgaaaata aatcagacac tttcagaatt tg 2552

<210> 791

<211> 2699

<212> DNA

<213> Homo sapiens

<400> 791

gagcgatcat ggcaacgggc tcgggcgggg aacgcgtggc agcggctgca gcggcggcag 60
tttgggtggcg gactggggcg gcggagcggc ggccggcggcg gcggtggcac tggcactggc 120
cccggccctg agcaccatgc ggccggggcag ctccgagagc gagctggcgg cccggtggga 180
ggcggaggcg gtggctgcgg ccaaagcggc ggccaaagct gaggccgagg ccacagcgga 240
gacggtggcg gaacaggtcc gcgtggacgc gggcgcgggc ggggaaccgg agtgcaaggc 300
aggggaggag cagccaagg tcctggcccc ggccccggcg cagcccagtg cggctgagga 360
ggggaacacc caggtccttc agcggccgcc gcccacgtg cccccgtcca agccgaagcc 420
ggtgcaggcg ctctgcccgc acgggaagcc ccgggacaag ggccgaagct gcaagcggag 480
ctcgggccac ggttccggcg agaacggctc ccagcggccg gtcaccgtgg acagctccaa 540
ggccaggacc tccctggatg ccctgaagat cagcatccgc cagctcaagt ggaaggagtt 600
cccatttggc cggcgttgc cttgtgacat ctactggcat ggagtttcat ttcacgacaa 660
tgacatattc tccggtcaag tgaacaagtt tccaggttca aatggtgaaa gacgatgacc 720
cctcctggaa gcccactttt atcgtgaaac ctgatgggtg ttgtcagggt gatggaatct 780
acctcattaa agaccccagt gacatccgcc tggcagggac cctccagagc aggccagcgg 840
tgggtccagga gtacatctgc aaacctctcc ttatcgacaa gctcaagttt gatattcgctc 900
tgtatgtctt actcaagtcc ttagaccctt tagagattta tatagccaaa gacggactct 960
ctaggttttg taccgagcca tatcaggagc ccacccccaa aaacctgcac cgcattctta 1020
tgacttaac caactattca ctgaacatcc acagcggaac cttcatccac tcggacagtg 1080
ctagcactgg cagcaaaagg actttttcca gcatcctttg tagactgtct tccaaaggcg 1140
ttgacatcaa gaaggtctgg tctgacatca tctccgtggg gattaagacg gtcatcgcg 1200
tgactccaga gctcaaagtc ttctaccagt cagacatccc cacggggagg ccgggcccc 1260
cgtgcttcca gattttaggc ttgacattc ttctaataa aaatctgaag cctatactac 1320
ttgaagtaaa tgcaaatccc agtatgagaa tcgaacatga gcacgaaggg tgtttgaaaa 1380
tgtccccagc ctcgttgatg aagaagtga agtggtgtg atcagagaca ctctgcgcct 1440
catggaccca cttagaaga aaagagagaa tcagtctcag cagcttgaaa aaccattcgc 1500
tggaaggaa gatgctttgg acggcgagct gaccagtgtc ccagactgca acgccaaccc 1560
cgaagcccac ctgccttcca ttgcctcaa gcagggtgtc cccaagtacg caaaacagtt 1620
caactacctg cgcctgggtg acaggatggc aaatttgttt atccggttcc tgggcatcaa 1680
gggggcaatg aagttggggc caacaggctt tcgtacctc ataaggagct gcaaactcag 1740

cagcagcagc ctgtccatgg ctgccgtgga catcctctac attgacatca cacggaggtg 1800
gaactccatg accctggacc agcgggactc agggatgtgt ctgcaggcct tcgtagaagc 1860
tttctttttc ctggctcaga ggaagttcaa gatgctgcca cttcatgagc aggtggcctc 1920
actgattgac ctttgcgagt accacctgtc cctgctggat gaaaaacgcc tgggtgtgtgg 1980
ccggggcgtc ccgtcggggg gccggcccc acaccgtggc cctccccagg agccctcccc 2040
ctcggcccag ccagcagggg acaaccccc accccgcacc agctgtgccg ataagctctc 2100
ccatcccaga catacctgt cctgagggcc actctgtcct cctggaaaac ggaagacgag 2160
agcagctttc agggctggag cgccccaggc attctgcctg cagaggaatg gcaggcaggc 2220
tgccgagggg ccagctgag gtccccacga actgtctctg tgtgcggctg agctgtgctt 2280
caccaggctg gctggttctc acctgccttc ctccctcacac ctcttggtga tacacctgt 2340
ttctgagtca tcagtcacg gacatatgac atctaaaacg tgacagatgg caccttctat 2400
tctgggctca caggaagcac caactggggc aaatctgttg tatttggggc acaggacaca 2460
atcgatccca aggcccggag ctgtggagag gaagccgagt gttaggatct gctgccgggg 2520
cctccacgcg cccaccggga aaagcctgag aacatcgtgt ttatttcctg ccgcccgttc 2580
cgagagaagg aagtggaaat atcaagtagg catctgcgaa tctcccatcc cagtcatgtg 2640
ctacatgggt gtagtgaaca gattaacctc atttagttca ttagcttgcc tgttgctgc 2699

<210> 792

<211> 2794

<212> DNA

<213> Homo sapiens

<400> 792

tcctggagaa cccagacaac gaagggtctc ctccctcgga gcagctggtc caggatgggg 60
ctacgcacag tctagtggca gagagcacag ggggcccagt tgtgagccac acagtgccat 120
ctggtgatca agaggcagcc ttgccagtgt cttcagcaac taggcacctg tggctgtcct 180
catctcccc tgataataag cctggtgggtg atcttccagc tctgtcccca tcacccatcc 240
gtcagcacc agctgacaag ctgcccagca gggaggcaga cctaggagag gcctgccaga 300

gcagagagac tgtacttttc tcccacgaac acatgggtag tgagcagtat gatgctgatg 360
cagaggagac ggggctggat ggctcctggg gtttcccagg aaagcccttc accaccatac 420
atatgggggt accccattct ggacctacac tcaccccacg aacaggaagt agtgatgtgg 480
ctgaccagct ctgggcccag gagagaaaac atcctacaag gcttggttgg caggagtttg 540
gtttgtccac agaccccatc aagttgccct gcaacagtga aaatgtcaca tggctcaaac 600
ccaggccgat ctcaaggtgc ttagcaaggc caagttctcc cttggttccc agctgctctc 660
ccaagactgc agggacactc cgtcagccca ccctggagca agcgcagcag gtggtcatcc 720
gagcacacca ggaacagctg gatgaaatgg ctgagctcgg cttcaaggag gagacgctga 780
tgagccagct ggcttctaata gattttgaag attttgtgac ccagctggat gaaatcatgg 840
ttctgaaatc caagtgtatc cagagtctga ggagccagct gcagctctat ctcacctgcc 900
acgggcccac cgcagcccct gagggaaacag tgccgtctta gagccagacc ctgtgccgag 960
atggtggggg ccctgcagga gtctgtgctg ggctctcagg ctggaggagc ctctgccagg 1020
tcctccctgc acacaccaga acccacacgc tggctcctgcc tatgctagcg tcaccccagc 1080
cccacgtggc ttcagatagg tcccagcttc tccctcaggg acaggcccct gtcctcagt 1140
tccatgcaca ggagtgcctc caagggtggg ccaggccgaa gaacctaata cctttccctt 1200
atgcctagag aatatgatta actaaccctt tgccctgtggg aatatatttg ggtctaataa 1260
ccctgaagtt tctaagtttg gggatcagag gatggggtgg tcagtggtag cctagaggtc 1320
agaggtcaca agacagagaa gacaacatgc tgagaccaga ggcttcacca gctgaattct 1380
gtgcctaact tagaagacta aacactggcc caaacttaac cattggtgct agggggacag 1440
gggtgggggtg agctctgccc catcagccct tggagattga tttggggatt tagaggcggt 1500
tttgaatatg taaatagcat aaaccttgac ttgatgtgtc actgacagca gcagatgtga 1560
gacaggcctt atatttacag ctcccttccc ttcctgcaat ccagtgttga ggcagaagag 1620
ggtgcctgtg tcacacatca atttttctcc tgacttttgc tcgggtgaaa ggcctctgta 1680
caatgcccga tactctcatg ctcccatggc agctcctggc tcctatctgg gacacctcac 1740
taccagccc cctcatggaa tagtccatct cctagcctgg cttcatcca gttcacctg 1800
cccagccacc ctgcctctca ggggtctgtg ttgggaacct tggcagttga acagagtgtc 1860
ctgttcaaca gtctgaggcc tctgaaacag aattcacaca caaaccttca gccaaattct 1920
gcctgctgtg tatcttttta gcaggaagca gctcaggaca gggaagacaa agtagcctcc 1980
aggtgccaat tacttttaaag ccactctggg tcaaattggag attcatgagt cacggccttg 2040

gcccgaacgc ccattactat gtgagccttt atttccttca gataaaggat aactttttac 2100
 ggtttttaaaa ggagggctta attaaaaggc caagaagagg gttaaattggc tctcttgaga 2160
 cactagcagc ctggtccagt caccctttgt cagcctgaca gtgcctcatc tgaccgccag 2220
 ggggcatcct tatttggtgct tcccggctgc agggcactgc ggcccctccc tcacatgac 2280
 actaaaaacc ttcaaagacc cagtctagcc aaaagctcaa gtgggacaat ggcacagtat 2340
 taagggtcaag gacaaaaact tacttacttt aggaatgaac cctattctat catcatatac 2400
 aacagcacca ctgagagctg gtgaaacagt ttaaatccca tcctctgctt gtggcaaagt 2460
 atgcataaat gcctgctgct cacagtaaaa gggcttcttc ctcttttact gggatgaccc 2520
 cctgaaggcc cagcctatcc caactccaca gtcaggaagg cctacgtcct tgggtccacag 2580
 acggagctgg gccaggttta aaagactcag tctaggcttg cctttgcaaa ccaaaaacga 2640
 ggacaggtct gaagtgggaa gaaagctccg aaatagaaaa cggttaggtc ctattctatc 2700
 cccagcaaat ctaagcaaga aatctcttta tacaccacat ggcccccca ctcccataaa 2760
 acagccttgg taataaagaa gttatcacac caag 2794

<210> 793

<211> 4477

<212> DNA

<213> Homo sapiens

<400> 793

caaggcccct gctgttcagg atctgctcac acggcttctg caggccctcc acatagatgg 60
 gccacggtct gcccaagtag cccagagcct tctaaaggag gaggcctctt ggcagcagtc 120
 acaccaccag ttccggaagc ggctgtcaga ggagtacacc ttctatccag atgccgtgag 180
 cccactgcat gcatccatat tgcagttaca acatggcatg aggctggtgg cctctgagct 240
 ccacacctca ctctacagca gtatgggttg tgcagacagg ctggggaccc tggccacagc 300
 cttgctggct ttcccatcgg tgggccccac cttcccgact tactatgctc atgcagacac 360
 tttgtgctcg gtgaagtctg aggaggttct acgaggcctt gggaagctaa tcctcaagcg 420
 ctcaggagga aaggagctgg aaggcaaggg ccagaaagcc tgtcccactc gggagcagct 480

gctgatgaat gctctccttt acctgcgctc ccacgtgtta tgcaaggag agttggacca 540
gagggccctg cagctcttca gacatgtgtg tcaggaaatc atcagtgagt gggatgagca 600
ggaacgcata gccaagaga aggctgagca ggaaagcggc ctgtatagat acaggagcag 660
gaactctagg acagccctga gtgaagagga ggaggaagaa cgggagttca gaaaacagtt 720
ccccctgcat gaaaaggact ttgcagatat tttggtgcag ccaacgttgg aggagaacaa 780
aggaacttca gatgggcaag aagaggaagc aggcacaaac ccagctctcc tctccagaa 840
ttcaatgcag gcagtaatgc tgatacacca gcaattgtgt ctcaactttg ctcgatccct 900
ctggtatcaa cagactctgc cgccacatga agcaaagcat tacctcagcc tgtttctgtc 960
ttgctatcag actggggcat cgcttgtgac acacttctac cccctgatgg gaggttgaact 1020
gaatgaccga ctcttgggca gccaaactttt ggctgtacc ctctccata acactctttt 1080
tggggaggca cctcagacc tgatggtgaa acctgatggg ccctatgact tctaccagca 1140
tcccaatgtt ccagaagcac ggcagtgtca acctgtgctt caaggtttct cagaggctgt 1200
cagtcacttg ctacaggact ggccagaaca cccagcgctt gaacagctcc tggttgtaat 1260
ggacagaatt cgtagtttcc cactttccag tcccatctca aagttcctga atggcttaga 1320
gatccttctg gcaaaggcac aggattggga ggaaaatgca agtcgagctt tgtctttgcg 1380
gaaacatctt gatttgatca gtcagatgat cattcggtgg cgtaaactgg agctgaactg 1440
ctggtccatg agtttggata atactatgaa gcgccacacc gagaaatcca ccaagcactg 1500
gttctccacc tatcagatgc ttgagaagca catgcaggaa caaacagaag aacaggaaga 1560
tgacaaacag atgaccttga tgttgctggc cagcacatta caagcattta ttgaaggatc 1620
ctcgctggga gagttccatg tgcgacttca gatgttactg gttttccatt gtcatgtctt 1680
gctgatgcca caggttgaag gaaaggattc actttgcagt gttctatgga atttgtacca 1740
ttattacaag caattctttg accgggtcca ggccaaaatt gtggaacttc gttccccct 1800
agaaaaagaa cttaaagaat ttgttaagat ttccaagtgg aatgatgtca gcttctggtc 1860
cattaagcaa tctgtagaaa agacacacag gacactcttt aaattcatga agaaatttga 1920
agcagtcctg agtgaaccct gccggtcatc cctggtggag agtgacaagg aagaacagcc 1980
tgactttttg cccaggccaa cagatggagc tgcaagtga ctgtcttcca ttcagaatct 2040
gaacagggca ctgagggaga ccctgttagc ccaaccagca gctgggcagg ccacaattcc 2100
agagtgggtg cagggtcttg ctcttccgg cttggaaggg gagcttctgc gtcgcttgcc 2160
aaagctcagg aaacgcatga ggaagatgtg cctgacgttc atgaaggaga gccccctgcc 2220

tcgccttgtg gagggccttg atcagttcac aggtgaagtg atttcctctg tgagttagct 2280
gcagagctta aaggtggaac cctctgcaga gaaggagaag cagcggtcag aagccaagca 2340
cattctcatg caaaaacagc gagctttgtc agacctcttt aaacaccttg caaaaattgg 2400
tttgtcgtat cgcaaaggtc ttgcttgggc ccgttcaaaa aaccctcaag agatgcttca 2460
tcttcacca ttagatctcc agagcgcatt gtccatcgtc agcagcactc aggaggctga 2520
ttctaggctg cttacagaaa tctcgtcttc atgggatgga tgccagaagt atttttatcg 2580
ctctcttgca cggcatgcca ggcttaacgc agcactagca actcctgcca aggaaatggg 2640
catgggcaac gtggagaggt gcagagggtt ctcagcacat ttgatgaaga tgctcgtccg 2700
acagcggcgc tccctgacca cgctcagtga gcagtggatc atcctcagga acctcctcag 2760
ctgtgtgcaa gagattcaca gcaggctgat ggggccccag gcctaccccg tggccttccc 2820
ccctcaggat ggcgtgcagc agtggacaga gcgcctgcag cacctggcca tgcagtgcca 2880
gatcctgctt gagcagctct cctggctcct ccagtgtgc cccagtgtag ggccagctcc 2940
aggccatggc aatgtccagg tactggggca gcctcctggc ccctgcctgg aaggaccaga 3000
acttagcaag ggacaacttt gtggagtagt gctggaccta attccttcca atctgagcta 3060
cccatctcca atacctggaa gtcagctgcc ctctggttgc cggatgcgga aacaggatca 3120
cctttggcaa cagtcaacta cgagattaac agagatgcta aaaaccatta aaacagtga 3180
agctgacgtc gacaaaatta gacagcagtc ttgtgagact ctctttcatt cttggaaaga 3240
ttttgaagtt tgctcttctg cgctgagttg cttgtcccag gtgtcagttc atttgcaggg 3300
cctagagtcc ttgttcattc ttccagggat ggaggttgag caaagagact cacaatggc 3360
actagttgaa agtctggaat atgtaagagg agaaattagt aaagccatgg ctgactttac 3420
tacctggaag acccatctgc ttacttcaga tagccaagga ggaaatcaaa tgttggacga 3480
aggatttgtg gaagattttt cagagcaaat ggaaattgcc atccgagcca tcctctgtgc 3540
catccagaac ttagaagaaa gaaagaatga aaaagcagag gagaacactg accaagcaag 3600
cccacaagaa gattatgcag gctttgagag actgcaatca ggacatctaa caaaactctt 3660
agaggatgac ttctgggccc atgtgagcac ttgtcacgtg cagaaaataa tttctgccat 3720
ctccgagctg ttggagaggc tgaaatcgta cggtaggat ggcacagcag caaagcacct 3780
gttcttcagc caatcctgtt ccttgctggt gcgcctggtg ccggtcctct ccagctactc 3840
agacctcgtc ctcttcttcc tgaccatgtc tttagcaact caccgtagta ctgcaaagct 3900
gctctctgtg cttgcccagg tctttacaga gcttgcccag aagggtttt gcttgcccaa 3960

agaatttatg gaagattcag ctggagaggg agcaactgag ttccatgact atgagggagg 4020
 tggaattgga gaaggcgagg gcatgaagga tgtgagtac cagatcgga atgaagaaca 4080
 ggtggaagat acatttcaga aggggtcaaga aaaagacaaa gaggatcctg attcaaaatc 4140
 tgatattaag ggcgaggata atgccattga gatgtcggaa gattttgatg ggaaaatgca 4200
 tgatggggag cttgaagaac aagaagagga tgatgagaaa tcagatagtg agggcgaggaga 4260
 cctggataaa cacatgggag atctcaatgg tgaggaagct gacaaactag atgagaggct 4320
 ttgggggtgat gatgatgagg aggaagatga ggaggaagaa gacaataaaa ctgaagaac 4380
 aggaccagga atggatgagg aagattctga acttggtgct aaagatgaca acttggatag 4440
 tggcaattca aacaagata aaagccagca agataag 4477

<210> 794

<211> 1695

<212> DNA

<213> Homo sapiens

<400> 794

atgactggca gtggcatcag cgatggcggc tgcgtcgggg tcggttctgc agcgtgtat 60
 cgtgtcgccg gcagggaggc atagcgctc tctgatcttc ctgcatggct caggtgattc 120
 tggacaagga ttaagaatgt ggatcaagca ggttttaaat caagatttaa cattccaaca 180
 cataaaaatt atttatccaa cagctcctcc caggaggatt ctctatggga ggatgcatgg 240
 caatgcattt agcatataga aatcatcaag atgtggcagg agtatttgct ctttctagtt 300
 ttctgaataa agcatctgct gtttaccagg ctcttcagaa gagtaatggt gtacttctg 360
 aattatttca gtgtcatggg actgcagatg agttagttct tcattcttgg gcagaagaga 420
 caaactcaat gttaaaatct ctaggagtga ccacgaagtt tcatagtttt ccaaagtgtt 480
 accatgagct aagcaaaact gagttagaca tattgaagtt atggattctt acaaagctgc 540
 caggagaaat ggaaaaacaa aatgaatga atcaagagt atttggttaat gtaagtgtaa 600
 tgtctttgtg aaaagtgatt ttactgccaa aattataatg ataattaaaa tattaagaaa 660
 taacactttc ctgacttttt tattattaaa atgcttatca ctgtagacag tagctaattc 720

tattaatgaa aaacaataga caaacatctg tgcataatTT ttcagacaca attctgtaaa 780
tatttggaaa ccttttaagt atttaaactt ttaaattttt gaaataaagt attctaaact 840
aatataaata aggacaatga aaaaacatga aaggacttag cataatgtta ttttatcttt 900
tctacaactt tgtttaaatt acctttccaa agatatttgt gtttatgtaa ttttccacgg 960
aataacatta atactctagg tttataaacc ggtttcacat tatttcattt gatcatcaca 1020
agagctttgt gaagtaagcc gagaagttgt tactgggtatt taataatagc aatagaggag 1080
ttaaagactt tcccacagct tgcaggtcaa gacaagaaat tcaggtctcc taattctcag 1140
tggagctcta tttctgttaa cccaaattgc tgctctgttt taggtctcaa tttcatctgt 1200
aaaatgatac taatagtact tatcccatg gatTTTTgtt gagatttaaa taaatagcca 1260
aaagccaata cataataaac actcagtaaa gattaaccat aaggagagtc atgatctggt 1320
tccaggaata cattgttaga tgactgaaaa attgtattac ttcaatgaaa atactataaa 1380
taataacatt ttcatatatt agttgggttct catgcataca taatctaatt ttatttgatc 1440
ctcacaactg ttttaagtttt attaaatata cattatccct gtttgataaa atagaatcat 1500
acaatactg cctgctttca ttcaacaaaa ttatcatgag atttttccat gttgtgtaca 1560
tcaatagttc atctatttta ttgctcagta atattccatt gtgtggatgt atcactattt 1620
gtttacacat tcaccactga tatataagtt gcttccagtg tgaggctgtt ttaaataaag 1680
ctgctatgaa tattc 1695

<210> 795

<211> 2331

<212> DNA

<213> Homo sapiens

<400> 795

aagagagctt ggaagggatt gttcgaggat gtgggatttg gtcttagaag accgaaggat 60
gaatgtttcg agacaaggag tggatcaggc cagataagta tggccatttc tctcaggagt 120
tctggaattt ctgtgaagtg cctgtcgaag ctgtggatgc cggtgactgt gacatcaact 180
acgagggcct ggataacctc ctccgcctga aggagctcca gtccttgctg ctgcagcgct 240

gctccacgt ggacgactgg tgtctcagcc gcctctaccc actggccgac tcgttgagg 300
agctctcgct ggccggttgc ccccgcatct ccgaacgggg cctcgctgc ctccaccacc 360
tccagtgaga cctcagctca ggctgggcca catgcccagg cacctctccc acctaacca 420
gatgcaggag aggaagtggg gaggggcaat gttaggcagt tctcatatcc ccctgcatcc 480
atcacaacc tagagtattt atggtagatg agcagtcaca gtgagtctct ggaagaatta 540
aatgactcct ggttttcttc ctttttgttt tagtcaaac tgtgtgatat cgacgctgtt 600
gcagaacagc aggagctgga gttgcatatt tgcaattaac acagtgggct tcatgtgcct 660
ggacagctat aaagatttta ttttaggaag ctaagggtga aatttggggc cagtacctcc 720
ctatacacac acacatgcac gcatgcacgc acgcacacac acacacgcac gcacacacac 780
tgtcctgtaa ggttgaaatt tggggccagt acctccctac acacacacac acacacacac 840
acacacacgc aactgtcct gtacctccct acacacacgc acacgctgtc tgtacctccc 900
tacacacaca cacacacaca cacacgctgt cttatactg gcttatctcc ctatacatac 960
acacacacac acacacacac acacacacac acgctgtcct gtacctccct acacacacac 1020
acacacatgc tgtccttaca ctggcttacc tccctataca cacacacaca cacacacaca 1080
cgcacacact gtcctgtacc tccctataca cacacacgct gtccttacac tggcttacct 1140
gcctatacac acacacacac gcacacgctg tcctgtacct ccctacacac acacacatgc 1200
tgtccttaca ctggcttccct gtccttctca ccccttttca ggaacctccg caggctggac 1260
atctcggacc tccctgccgt gtccaaccct ggccctcact agatattggt ggaggagatg 1320
ctgccaatt gcgaggttgt gggagtcgac tgggctgagg gcctgaagtc agggccggag 1380
gagcagcctc gggacacagc cagccctgtc cctgcctagc ctttagccct gtccccactc 1440
acgtggcttc tcagcgggct gcatggaatg tctggtagct caccacactt ctggcttcca 1500
tttgtcttca ctcaacgtca ggggtggggga gtggtgctgg ccaatcacag gagagagcgt 1560
gagttcccag tatttatcc tggtgccct tggctaaagg tcacagctcc tgtcaccctg 1620
tcaggcagcc ctttcatac ccctgttcag gcctggggag gtaaaggctc aggctgttag 1680
tagccgcaga gagccacact caccttgtca ggagactctt ctcaaactgt ctttatgtga 1740
gtgcaactgc atttcttgca gggaccctga ctgacacagg ggctactact gacactttac 1800
agggatggtt ctccccctg cagggccgct gtgcccactg caggacatgc agcatccttc 1860
gccccactcc actcactaaa ggccagcgca cccaggccc catagtatgt ctggttatgg 1920
atttatgtac tttatgttcc aaattcagct ttttcagttg gctgtttttt gaaaggggat 1980

aagctttgtc agtagagggc atcaaacagg cattatagga ggaaaggcgc ctccttcgtg 2040
gttcttgttg gttgtgcttc tgcctctgga cgccgcagtg catgtggctt cccagcacc 2100
cagctcctga agcaccaggc ggtcagcagc tgcccttggc accctccagc cctcagaagt 2160
tgcgtaggag acacagcgcc tccactgagg cacctctctg ggaataacgt tccccagcac 2220
cccaaattga tttccagtca attcagaagc attttaccag tgaagccctc attattccag 2280
ttcactgtta aagccagtaa ttctctatat taaactttcc ctgttcaagt t 2331

<210> 796

<211> 3916

<212> DNA

<213> Homo sapiens

<400> 796

aaataatggg tgagacgtgc tcagtataat gagagcttga gaaggcagat cccaccccc 60
atccccacc ccacccttg ccgccttgcc aatgctttgg caggagagg gcagctccat 120
agggcagctg agaaacagcc cctcactgcc cacacggcag ctccagtgga gggggaggca 180
gggaccagga caggaagcag gctaaggcg ggatagaaaa gcaaaccaca gtctgggtgga 240
atcgcttctg gtgtagtctt cccggtgcc tgtgtttgtc ctctctgcct tggcaggaac 300
caaggccagg aactgctgcc aggccctgaga gccgggcaca gtcccaagca ctgggtcgct 360
accccgcccc actcccacca gcccactga gtgcagagaa gggttcccag aagcccttg 420
ctggaaaagc aggcactgca cgggcagccc gtgttgtaga ggcaagtcct ctggcatctt 480
gggggggaca cagaccagaa agcggacttg gagcttgtgc tcccagacag agctgccttg 540
gtggttgaga aggggagaga gatggcagca gttgagcaga gatggccggg ctcccctcac 600
tgtgtggggt gaggcttcaa gcaactggact gggagtcaga cctggatccg agtcacaacc 660
tgacaccaac cggctgaggg tctcagagca agtcatgcct tttctgggtc tgggggcctt 720
catgttattc cctcctggct atgttcttcc cctttgctcc ttgagccgat ccagactga 780
gtgctgaaac tgcggccttg aaacttggct cgctcctccc cctgcccacc cagccagctt 840
tcagatggag acaggaagct cctcccaatt gcctatgctg caactagtca ggagaagggc 900

gggaggttgg cagtaagtgt ttggctactc ccagtgttgg agactgtgtc cacctgacca 960
tgtgatcatc tggccgttca tgccaggacc accaggaaca agcctcagtc ctctttctcaa 1020
tgtcctttcc ctatgacagc cctgcagagg ctaggtatcc accactacat agcccacagt 1080
ctgctctgcc ccagccacag catccttggc ttgctcagcc attctttgtc tgggtagttt 1140
gaagtccaat cccactctc attacttacc atcctctgaa tgcagccagt ctgtctgggt 1200
ctccctgaga ctggcatgcc cagactcctg tgggtatagt ctggccaagg cagagttagc 1260
ataggactgt cacctccctc cttctacata ctctgcttct attaatgcag cctaattgta 1320
catttgttct tttggtgacc gcatctcact gctgacccat cctgagcaga tggacatcca 1380
aatgcctaa aacttttttc tgtgtgtctt tgctattaag ttctgtctct cctgccccat 1440
tctatgctgt tgcagttgtg tttttaaccc aggtgcagaa tcttacttta tttataacctg 1500
tggaattttg ctcgagaggg tggggcatgc atgcgagtgt atgctgggtg gtttattcat 1560
gctttctgct gcaccaaagc caagtcctag gtccccacgc agcgatccta aggctaatta 1620
ttaattggta gctgtaatct aatttgtctt tttcatcttc tgttcagcaa gaggaacaga 1680
gatcaggctt tatggcaatg acccctgaac ggcagaatgc atatatctcc caacagatga 1740
gtccatttga agccgtccaa gaacaagtca cctccaagtg tagccggatc aaggcaagcc 1800
ccccatctag caagcacttg atgccacca gaactgggct tcttcagaac aatctgagtc 1860
caggaatgat cccactcacc aggaccaga gctgcgaggg catgggagtg atctcaccaa 1920
ctctggggaa gcggaagga attttcacct ccagccccca gtgtcccatc ctctcacact 1980
caggccagac tcccctgggc agacttgact ctgtctgcc a gcatatgcag agtcccaagg 2040
ccaccccacc agaagtgcc ctgcctgggt tctgtcccag ctccctgggc acccagtcct 2100
tgagtcccca ccagctcaga cggcctagtg tgccaagaat gccactgcg ttcaacaatg 2160
ctgcatgggt cacagcggca gcagctgtga ccacagcagt ttcggggaaa acaccctca 2220
gccaagtgga taatagcgtt cagcagcact caccttctgg ccaggcctgc cttcagaggc 2280
catctgattg ggaggcacia gtgcccgtg cgatgggaac acaagtgcc ctggccaaca 2340
accccagctt cagcctgctg ggcagccaga gcctcaggca gagcccggta cagggcccgg 2400
tgctgtagc aaacaccacc aagtccctcc agcagggtat ggccagcttt agtcccctga 2460
gccccataca gggcatcgag ccaccaagct atgtggctgc tgctgccacc gctgctgctg 2520
cttctgccgt tgctgccagc cagttcccag gtccgttcga cagaacggat attccccctg 2580
agctgccacc tgccgacttt ttgcgccagc cccaaccccc actaaatgat ctgatttcgt 2640

cacctgactg caatgaggta gatttcattg aagctctctt gaaaggctcc tgtgtgagcc 2700
cagatgaaga ctgggtgtgc aacttgaggc tgatcgacga cattttggaa cagcatgctg 2760
ctgctcaaaa tgccacagcc cagaattctg ggcaagtcac ccaggatgct ggggcacttt 2820
aaatctgagc aggatgcca tagaaacccc catggtgaca tcactctagg aagtgggtgtc 2880
gatccatacc cgcagttgtc tcccgttaca atttgagtgg tgttgtcagc ccatgcttat 2940
ccctctctct acctgtgaca aaatggaaag ctggtgattt ttcaagctac gtgtacatat 3000
ttgaaaattt tgtaaacggg tttcctaaac attaatagaca gaagtattta tacttcattt 3060
tgtgactttg taaataaagc gacggctttt gtttcagtag agttgtgttt actatgcatt 3120
gttttgtgtt tattatacaa tgttacaaat atgcagaccg tgttgtttgc tccagtata 3180
ccttgtaag ctaggtggct gagtcgctta tggttttaat gcaatgagca atgtggatat 3240
gaccaagagt tgttgtgcaa gttgacaaat gccaaataga aaaccacttg gccatttatt 3300
tctatgttca ctaaaaatcc tattgccttg tgtgattctt aatctctttt gcgaaccttt 3360
cagtctccgc tagctctttc ctaatgagct ttacagcaga agccgtttta tcgttaagtg 3420
ccccacagag acactttacc aggaggctgg gagagtctc cagatttggg agaggcgcag 3480
agacagtgtg tgagccgagc cctgtctcag caatccacct ggaggagcta gagtatctc 3540
ctccctttac cattcagacc gagagaaaaa gcccagcttg tgtgcaccct cgtgggggta 3600
aggcgagctg ttcttggttt aaagcctttc agtatgtgtt ttgatgtaag gctctgtggt 3660
ttggggggga acatctgtaa acattattag ttgatttggg gtttgtcttt gatggtttct 3720
atctgcaatt atcgatcatg atatttaagt gtctgttata gaaaaccac acccactgtc 3780
ctgtaaaactt ttctcagtgt ccagactttc tgtaatcaca ttttaattgc cacctcgat 3840
ttcacctcta catttgaaat ctggcgtctg tttcaagcca gtgtgttttt tcttcgttct 3900
gtaataaaca gccagg 3916

<210> 797

<211> 2870

<212> DNA

<213> Homo sapiens

<400> 797

tagttaccaa	gctcggtgaa	ggagacaagt	tcccacagct	gactcggctc	ggctctccca	60
ccttcccggc	agcggccgcg	agccctgatt	gtatccctcc	ctttcctcgt	gggggagcac	120
ggactgactt	ggctgaagaa	aatgccagtt	ctgtggatgt	ggccgtgaca	agaggacgtg	180
cggctggaag	aggcagaagg	ggacgaggaa	aagcatgctt	tgaagagaag	aataaaccag	240
cgaccccaac	cctttctgca	aattgggtgt	attacttgtg	ggatccattt	gctttcattc	300
cctcccaccc	caccgctgaa	gaaaccttgc	cctgaggggt	gagagccagc	cccctgcagc	360
cgggggacgc	ttctgggttg	gaggaccttc	tggatgtagc	gttgggtggaa	cctttagata	420
ctctcctctg	gaaaagccac	catgaattcg	gtagctggga	ataaagagag	gcttgcggtc	480
tccaccaggg	gcaagaaata	cggggtgaat	gaagtctgct	cgcccaccaa	gcccgcagcg	540
cccttctccc	cggaaagctg	gtaccggaaa	gcatacgagg	agtcgcgcgc	cggcagccgg	600
cccactcctg	agggcgcggg	ctcagcgctc	ggctcctcgg	ggaccccgtc	tcccggctcg	660
ggcacctcgt	ccccgagctc	gttcaccagc	tccccgggac	ccgcctcccc	cggcatcggc	720
actagttcgc	cgggctcctt	gggcggctct	ccgggcttcg	gcgagggctc	cccgggctcc	780
ggcagcggcg	gcggctcctc	ccccggctcg	gaccgcggcg	tctgggtgca	gaactgcaac	840
gcccgcctgg	tggagctcaa	gaggcaggcc	ctgaggttgc	tcctcccggg	gcccttcccg	900
ggcaaggacc	ctgctttctc	ggctgtgatt	cacgacaaac	tccaggtccc	caacaccatc	960
cggaaggcat	ggaacgaccg	ggacaaccgc	tgtgacattt	gcgccactca	cctgaaccag	1020
ttgaagcagg	aggccatcca	gatgggtgctg	acgttggagc	aggcagccgg	cagtgagcac	1080
tacgacgcct	cgccctgctc	cccgccaccg	ctctccaaca	tccccaccct	ggtgggggtcc	1140
cggcacgtgg	gtgggctcca	gcagcccaga	gactgggcct	ttgtgcccgc	cccctgtgcc	1200
acctccaact	acacaggctt	cgccaacaag	cacggcagca	aaccagcag	ccttgggggtc	1260
agcaatgggg	cggaaaagaa	gagcgggtcc	ccaaccacc	aggccaaggt	cagcctccag	1320
atggccacca	gtccaagcaa	tgggaacatc	ctcaattcgg	tggccatcca	ggctcaccag	1380
tacctggatg	gcacctggtc	cctgtcgaga	accaacgggg	tcaccctgta	cccataccag	1440
atctcccagc	tgatgacaga	gagtagccgg	gagggactaa	cagaagcagc	ggccacggca	1500
gcgacaacag	cagcgtgctg	agcgggggagc	tcccgccggc	catggggaag	acggccctgt	1560
tctaccacag	cggcggcagc	agcggctacg	agagcgtgat	gcgggacagc	gaggccaccg	1620
gcagcgcgtc	ctcggcgcag	gactccacga	gcgagaacag	cagctccgtg	ggcggcaggt	1680

gccggagcct caagaccccg aagaaacgct ccaatccagg ttctcagaga cggaggctta 1740
 tcccagcact atccctggac acctcttccc ctgtgagaaa accccccaac agcacaggcg 1800
 tccgctgggt ggatggcccc ttgcggagca gcccgagggg ccttggggaa ccctttgaga 1860
 ttaaagtcta tgaaatcgat gatgtggagc gcctgcagcg gcgacgaggg ggtgccagca 1920
 aggaggccat gtgcttcaat gcaaagctga agattctgga acaccgccag cagaggatcg 1980
 ccgaggctcg cgcaagtac gagtggctga tgaaggagct ggaggcgacc aaacagtatc 2040
 tgatgctgga tccaacaag tggctcagtg aatttgactt ggagcaggtt tgggagctgg 2100
 attccctgga gtacctggag gcaactggagt gtgtgacgga gcgcctggag agccgtgtca 2160
 acttctgcaa ggcccatctc atgatgatca cctgcttcca catcacctcc aggcgccggt 2220
 agatgagcca gacccttgtc ctagtgggtcc cccgctcccc aggacttcag agatgttgca 2280
 cgccccctagg ccctctgtgc tggggcatca aagacaatga atgaggatga aggttgggtg 2340
 caagtctgga gcgggcgttg agcgggaaggc gagttttctt ttgttttctg taggaaaggt 2400
 gcaaacgtca aacaccgtgg aaggagaaaa ggatgggaag cccgaggggt gtccaagccc 2460
 tgtgagactg aaaaagcact ttgaggaacc ttaaagacct tgtttgtaca taagaactgc 2520
 tagcaaaaga gacctactc ttctcttgct ttcgtgagaa aggaggggcg tggatgtagg 2580
 attgctgtgg aaagcgaaca caaaacaacc cagaatgact gattaagtgc cttgcaaadc 2640
 tttattatta tcaaacatt tatgttcata ctttcttggtg tacagatggt gctagtcaag 2700
 atgaaaacaa caaaacaac aagaaaaaca ttttggaat gtattcacag ctctttttct 2760
 cttggtgttt taccctatct ctgacttgct gtttctaagt aagttgtgtt tgtagagcta 2820
 tttcttaatc agtattgctt atgaataaat attacctgct ttttatgggt 2870

<210> 798

<211> 3992

<212> DNA

<213> Homo sapiens

<400> 798

agtactgtgt ctgatgctcc taaggaggct gtaaagtgt tttgtccatt cttttttgtc 60

ttttaacaaa ggggtttacc atacaccac agagcctgtc tagtggcgat gtgttcctgt 120
tgcggattaa gcattcaaat caatgagtct ctttcttagt ttgatttgct agctggttta 180
atctgttttg tgtagtgcct tggagcttac gctttttttt ttttttcct ccattcgaat 240
tactaagag caagcatgag ggatatgaga gtgaacatgg ctgcagtttt tcctgcttaa 300
gcttgctttg atccttttaa atgactgtac caggaggatt tcgcagttgt acagaaactg 360
atatttcttc aaaaatcttt atcaattcta cactcacccc accggctggg tcagagaggc 420
actatgatgc taccttattg acactgctgg tcgtgggac gtacagcctt tgtataattc 480
ctttgttagc cacgtttact gggaaaaaaa ctggtaatgc cgctgtcatc aaatatgagg 540
agaaacctcc aaaaccagca ttccagaatg gttcctcagg atccttttat ttgaagcctt 600
tggtatccag ggctcatgtt cacttgatga aaactcctcc aaaaggtcct tcgagaaaaa 660
atttatttac agctcttaat gcagttgaaa agagcaggca aaagaatcct cgaagcttat 720
gatatccagcc acagacagct cccgatgcgc tgccccctga gaaaacactt gaattgacgc 780
aatataaaac aaaatgtgaa aaccaaagtg gatttatcct gcagctcaag cagcttcttg 840
cctgtggtaa taccaagttt gaggcattga cagttgtgat tcagcacctg ctgtctgagc 900
gggaggaagc actgaaacaa caaaaaacc tatctcaaga acttgtaac ctccggggag 960
agctagtcac tgcttcaacc acctgtgaga aattagaaaa agccaggaat gagttacaaa 1020
cagtgatga agcattcgtc cagcagcacc aggctgaaaa aacagaacga gagaatcggc 1080
ttaaagagtt ttacaccagg gagtatgaaa agcttcggga cacttacatt gaagaagcag 1140
agaagtacaa aatgcaattg caagagcagt ttgacaactt aaatgctgcg catgaaacct 1200
ctaagttgga aattgaagct agccactcag agaaacttga attgctaaag aaggcctatg 1260
aagcctccct ttcagaaatt aagaaaggcc atgaaataga aaagaaatcg cttgaagatt 1320
tactttctga gaagcaggaa tcgctagaga agcaaatcaa tgatctgaag agtgaaaatg 1380
atgctttaa tgaaaaattg aaatcagaag aacaaaaaag aagagcaaga gaaaaagcaa 1440
atttgaaaa tcctcagatc atgtatctag aacaggagtt agaaagcctg aaagctgtgt 1500
tagagatcaa gaatgagaaa ctgcatcaac aggacatcaa gttaatgaaa atggagaaac 1560
tggtggacaa caacacagca ttggttgaca aattgaagcg tttccagcag gagaatgaag 1620
aattgaaagc tcggatggac aagcacatgg caatctcaag gcagctttcc acggagcagg 1680
ctgttctgca agagtcgctg gagaaggagt cgaaagtcaa caagcgactc tctatggaaa 1740
acgaggagct tctgtggaaa ctgcacaatg gggacctgtg tagccccaag agatcccca 1800

catcctccgc catccctttg cagtcaccaa ggaattcggg ctccttcctt agccccagca 1860
tttcacccag atgacacgtc cccaaagtcc acagactctc tgaaagcatt ttgatgcagg 1920
tctgcaggac tgacccaag gaggaacgtg ggcacaagag gtatatcagc acacgtgtga 1980
tcaccgtagg gtcactggag cgtcaccacc ggcggaatcg cagcttctga gactggaagt 2040
ctggaggaag acttttgcct ccgtccaaaa gattcctcca aaaaaagatt taaaaaaga 2100
tttcggcatc gacacggacg ttgttgaca aagcacttaa agaacgagag catcttgttc 2160
attgcctttt tcacctaagc ataaggggaa aaactctcag ggccctatta agatttataa 2220
cctttgtaat gttcttcacc acagacacct tcttgtgagt tttcagtctg actgtggggg 2280
tggggggtgt gaatgaaatg gatgtcacag agtgtcatgt gtctgatgca gcctcctctg 2340
ctgtgtatta aatgtcaaaa tctgaatata tctggatatg tactaatcaa ataataatca 2400
atcaatcagc atatacattt cagccaaagc catagaagaa aaagcaatag ttgcttgaat 2460
tatgatcatc taccaccaac tctgtcagc cctgtaacag ggtagggaga gggataaca 2520
ggaagagctt tgacttgtcc ctgtctatac attctctgta tcttttgggg gtaacttctt 2580
ggcagttttt cagtgttcag ccatgtcagt tgaaactaga ttttctgta gattttttac 2640
ttacccatgt gagcctaaca ctatcctgta attcattttc tcaggctatg tgtaaagtga 2700
gaaccctaat ttttctataa aaaaactaac taactaactg tgtaaagaaa gaaaaaggga 2760
agtaccaatg ggtttttcca ccttattttt acctttgatc tacccttgca gatttaacct 2820
gtcttcttcc ctcccattat tctcattttc cttttacctt tctccaccat ccagagccac 2880
aaaagcaaac cttctacctc ctacctactt ttctctggga caaggataaa ggaatatgat 2940
tttccagagc cccagagcca gctcatcttc caggtgctga aaccactttc caaataaact 3000
aaagcctgga ttgatatta caaattttgg gaaatcttag aataaagAAC gagaacaagg 3060
aagtcattgg ctagtataat taagaaaggT aggattcagt gcttaccgat gatgcagtac 3120
ttgatagaag aaaacagtct gggaggatag cgctcatttt tcagttacc ttttaaggagt 3180
ccctttgtct ttgggaaagt agcagaatgg tccgcttctt tcccatgagt ggaaaatgtg 3240
gcttgtccaa ctctcctcca ggttgcatTT cagtttcttt ccaaaactta ttacctcccc 3300
taatcctgag actttggaaa aggtggaagg aagaactgtt gctttatctc ccctccctg 3360
catgtgtcaa catttgtatg tcagtattta ctaatctaca ttcagtggct gtacaaataa 3420
cagctgtagt aagaagagat tcaggatgct agagggtgaat atttgggtca tttacatgta 3480
cactacatag caagttgata ctcatgttgc atgttctttt aaattagtga ttttgtgtct 3540

taagtcttta acttccaata cttcatcatg tatgtaacct tccatgtttg cttctgataa 3600
 atggaaatgt aggttcaactg ccacttcatg agatatctct gctcacgctt ccaagttgtt 3660
 ctcaatgaca ttagccaaag ttgggtttga cattcatccc ctaggcatgg taaatcttgt 3720
 gttgttcctt gctgtcctcc gtattacgtg accggcaaataaatctcata gcagttaata 3780
 taaaacatct ttggaggatg ggagagaaca ggagggaaga tgggaaacaa aatagagaat 3840
 tcttaagatt ttgtttaaac caaatgtttc atgtagaatg caaaatgttg gcacgtcaaa 3900
 aatatgaatg tgtagacaac tgtagttgtg ctcagtttgt agtgatggga agtgtatttt 3960
 actctgatca aataaataat gctggaatac tc 3992

<210> 799

<211> 2991

<212> DNA

<213> Homo sapiens

<400> 799

atgttcagga cagcaggcct ggcaccaaata aggccctcga tcaagaatag caaaacctcg 60
 gagagagaag gagccttggt atacaggttt accaaatacc aaggggatcc cagcactcag 120
 gtatgaggag ggcgaccag gtaccacttt cctggctccc tagcccagct gctcatgctc 180
 ctcttctctg tcccctcccc cactctcatc tcctcagccc gcccggaacg cccgcgggct 240
 aggccacaac ggctcgggaa ccgccgccgg tatccgcgtc cgcagcgccg ccagccaggc 300
 gagagccgtg tgggatccca gcgcccgcac tccgcccc gccaaggagc caggaatggc 360
 acaactagag aggagcgcca tctctggctt cagctctaag tccaggcgaa actcattcgc 420
 atatgatgtt aagcgtgaag tatacaatga ggagacctt caacaggaac acaaaaggaa 480
 ggcctcctct tctgggaaca tgaacatcaa catcaccacc ttcagacacc acgtccagtg 540
 ccgctgctca tggcacaggt tcctacgatg cgtgcttaca atctttccct tcctagaatg 600
 gatgtgtatg tatcgattaa aggattggct tctgggagac ttacttgctg gtataagtgt 660
 tggccttgtg caagttcccc aaggcctgac acttagtttg ccggcaaggc aactgattcc 720
 tcctctcaac atcgcttatg cagctttctg ttcttcggta atctatgtaa tttttggatc 780

gtgtcatcaa atgtccattg gttccttctt cctggtagt gctctgctga tcaacgttct 840
gaaagtgagc ccattcaaca acgggtcaact ggtcatggga tctttcgtca agaattgagtt 900
ttcggccccc tcctacctta tgggctataa taaatccttg agtgtgggtg caaccacaac 960
ttttctgact gggattattc agctaataat gggcgtattg ggtttgggct tcattgccac 1020
ttaccttccg gagtctgcaa tgagtgtta cctggctgct gtggcacttc atatcatgct 1080
gtcccagctg actttcatct ttgggattat gattagtttc catgccggtc ccatctcctt 1140
cttctatgac ataattaatt actgtgtagc tctcccaaaa gcgaattcca ccagcattct 1200
agtatttcta actgttgttg ttgctctgcg aatcaacaaa tgtatcagaa tttctttcaa 1260
tcagtatccc attgagtttc ccatggaatt atttctgatt attggcttca ctgtgattgc 1320
aaacaagata agcatggcca cagaaaccag ccagacgctt attgacatga ttccttatag 1380
ctttctgctt cctgtaacac cagatttcag ccttcttccc aagataattt tacaagcctt 1440
ctccttatct ttggtagct ctttctgct catatttctg ggcaagaaga ttgccagtct 1500
tcacaattac agtgtcaatt ccaaccagga ttaatagcc atcggccttt gcaatgtcgt 1560
cagttcattt ttcagatctt gtgtgtttac tggtagctatt gctaggacta ttatccagga 1620
taaacttgga ggaagacaac agtttgcac tctggtaggc gcaggtgtga tgctgctcct 1680
gatggtgaag atgggacact tttctacac actgccaaat gctgtgctgg ctggtattat 1740
tctgagcaac gtcattccct acctgaaac catttctaac ctaccagcc tgtggaggca 1800
ggaccaatat gactgtgctc tttggatgat gacattctca tcttcaattt tcctgggact 1860
ggacattgga ctaattatct cagtagtttc tgctttcttc atcaccactg ttcgttcaca 1920
caggtacttt gtctcaggta ataggagggt aacaaggcaa ggtaagccaa ctctgacct 1980
aaggcaagtg catttccctt cagagctaag attcttctcc tgggtcaaatt ccctaacacc 2040
aacatttata gaagcatcaa tgattatcgg gaggtagaat tccaaatggg tcccatttct 2100
ctgcctaagg gatagagtgg gccccacctc atgcttagtt tttctacaaa atcccttgcc 2160
attgtttcct gcaactgcaga tacacattta caaaggaggg ggatgtgatg tacactggta 2220
gagatgggtt ctttgttttt attttttttt ttttggggac agagtcttgc tctgtcacc 2280
aagctggaca gtacagtga gtggcttgat cttggcttac tgcaacctcc acctgccggg 2340
ttcgagcaat tctcctgcct cagcctcccc agtagctggg attacaggcg tgccccatca 2400
tacctggcta attttttgtg ttttagtaaa gacggggtct caccatgttg cccaggctgg 2460
tcttggactc ctgagctcag tcaatctgct tgcctcagcc ttctagagtg ctgggattac 2520

aggcatgact caacacaccc agccaagacg ggttcttaag tagctaaatt cttatagtat 2580
tgcagccagt taaagatcat ttgtaaattgt actttaagga gagtttggcc aagaaaaagg 2640
aaatgaaggg agaaagaaga cagcaggaaa agcagagggt gaaaatggga ggaaataatt 2700
ttctagttct tgtctctaataaagaagaat acaggctggg tgtgttggct cacacctgta 2760
attccagcac tttgggaggc caggcatttg agaccagcgt ggccaacatg gtgagacccc 2820
gtatctactg aaagtacaag aattagcagg gcgtgatggc aggtgcctgt aatcccagct 2880
actcaagagg ctgaggcagg agaattgctt gagcccgaga ggcggagggt gcagtgagcc 2940
aggatcgcg c attgcactc cagcctgggc aacagagtga gactctgtct c 2991

<210> 800

<211> 2718

<212> DNA

<213> Homo sapiens

<400> 800

gaacaaaggg agccgacagc tccacaacac tcagcccatg gggactgcag caggtgagtc 60
tccaccagc ctcctctctt tggaccaaca cgaactccgg agacgtctgg gtgcagctgc 120
ctcaggccct gctgtcttca acggggactg aggttgcagt ttagctggct ttcctgttcc 180
tgcttccctg ggtccccctc aaagaagccg cctgcacccc gtgccacctc actctggcat 240
agccctactt ctccaaacca ccaggcctgc cctcccttgt ccacgcagat ctgacaatct 300
ccacagtgt gtgcagactt cagctccaag aagttgcaag tgatggagat aaaatccctt 360
cctgagagag tcatgaaccg tggcctgttt gaggtcaaaa gaagaaatga gaacaaagcc 420
aagccaaggc ttcggagtga gccctgagac acctctcagc tggccgggtg gccagagatc 480
caccctgcag gagccgcccc gaggcagggtg ggccacatct cccaacaagc ggcacacaag 540
aaggccccctc gcaagaggag gcatctgtgg tcttcccaga gcaaaggcag cagccccggg 600
agcccagcca gtcactggcc acctgcacgc ctctacacag cagacctggc caggcgggca 660
gtgcccctgg ccccttgcca atagaacgtt gtggaacagg cggaacctgg gcagtgtcc 720
tgcaactctgg ccagccagtc cgtggatgct cctgccaggc aggactgagc cactgccagt 780

ctggccggtg ccagcctttt ctcagatcca gccacgccct ctctggatac ggtcttgaca 840
ccggcagacc aagcaggcag ttgcctccct ggctggctct gacctcctgc agcacaagga 900
gaggatgcac tgcactgcca ggcctctggg caccgagggc cgctgctccg ccgtttcttt 960
ctgctaccgc taattcaaaa cagggcaggg agcagctagg cagcagctgg gagagctgcg 1020
ggctcctcca cccggttgct ggtgggctcc atccggccgc accgcccga cctgctcacc 1080
tccagctgcc tcggccccag cggcacggac ggactcaacg gcgaccaccg cggcagctcc 1140
ccggggactc ctgcaggtc agctgagctt tgctttcagt cggcgtgcac ggttcccaaa 1200
cgtcggtggt gatttttgta agtgaggtgg gggtcaccac aggaagagag gggaggcaaa 1260
cctcccttcc cgctgtgtcc cgcctttcct cctggcggtt gcgtttccac gtgtcctgcc 1320
tgctgcccgc cccagcccac actgagcagg aaggtggggc gtggcgggga ggggagtgga 1380
actgagggaa gcagagaggg tggtgccatt gccccggcc tagcttctgt ttgatcatta 1440
gtttcaattc aagaaaacgt tcttttgagg gaattttaaa aatgaatcac gtgcacctct 1500
taagaaaacc gagtgtcaca atcgttgta ccacgcaggt gagaggagag gagggaggac 1560
gggaaaggga aggggcatga gaaaggcgga tgggactgag cgtctacggc tccctggccg 1620
cggcgcacgc gctggccctc cccgtccaca gcagcagcgg catcctccc accctacagc 1680
gaggaggtgg acgttgcccc gaggggagga gcgtgtcagg gtggcttcca ggtgcaggtt 1740
ctcgcgcagg cctcagcctt cataggtgca ttccgctcta gaacattcct gttcatgcgt 1800
ggtcgtcgt cactgggtggc cgcttaggtg cacttctcaa tggcagtgcc cagcacggag 1860
caatgcctcg gagtggcagt ttcttcagta cgggtccccc ggcctctccc aaggcggagg 1920
atgctgccgc caaggaaact ggctcaccac ggacgctggt gagctatgga gctatcagt 1980
aggtgtggat ttctcaggcc tctggcgga gccggagtaa aggcctgag tgtctagacc 2040
agccagagta tctgcgtgta ggtcagcaaa tgtgggcaaa tgtctaggcg gtggtgtcct 2100
gcaggagacc gaaggcccgt gggggacgtg accaactcag cattccgctg gaggtacaa 2160
acagcaaact gtttatcatg aatgcaggat gtgggcaaac tcacactgcc ctgccaccaa 2220
aaggtttgct aacagacatc actccctagc tccgggctcc ttaaagtatt ctgcctaaaa 2280
aatctagtgc ctattgtcca aaaaatgcaa gactactgtg aaccaaacgg cagactgaca 2340
atccccccc tccccagct ttctcgtat ctctttttgc ctaataaata cggagggctg 2400
tgtaaagctc agggcccttg tccactaaag gcaaggtgcc cctaaccct tcttccaaat 2460
atactctgtt gtctcttgtc ttttattccc gtgttgcccc ctttgttca gtccagtagg 2520

tccccaacaa tgcctgagg gtatgaatcc tgaaagacta ctctccatga agcaggtatt 2580
taccaggtta gtgcatgttt cctgggtatt aagggaacac agtaaaatgt tctgtacggg 2640
gggtcccgtt ctgtgtcgca cgagaagagt gtgtgtcttt ttactttttt aatatggctc 2700
aataaaattt taaatcac 2718

<210> 801

<211> 2389

<212> DNA

<213> Homo sapiens

<400> 801

tcagaaccag tcatccgaag actcagagac agagctgtta tcaaacttag gagagtcagc 60
tgctctagca gatgatcagg ccatcgaaga agactgctgg ttagatcatc cttacttcca 120
gtctctgaac caacagcccc gtgaaataac aaaccaggtc gttcctcagg aacggcagcc 180
tgaagcagaa ctggggccgct tgttgtttca gcatgaattc ccaggggcccg cttttccaag 240
gccggaaccc cagcaagggtg ggatttcagg cccctcttct cctcagcctg cccatcctct 300
aggagagttt gaagaccagc agtttagcaag tgatgatgaa gagccaggtc cagcctttcc 360
aatgcaagaa tctcaagagc ccaatttgga aaacatttgg gggcaagaag ctgcagaggt 420
agatcaagag ctcggtgaac tactagtgaag agaaacggaa gcaagatttc cagatgtagc 480
aaatgggttt attgaggaaa taattcattt taagaattat tatgatctga atgtactttg 540
taattttctt ctggaaaacc cagattatcc aaagagagaa gacagaatca ttataaatcc 600
cagtagcagt ctgctggcca gccaaagtga gacaaagttg cctaaaatag acttttttga 660
ctattctaaa ttgacccttc ttgaccagcg ctgcttcac ccaagctgctg acctcctcat 720
ggccgacttc aaagtgtca gtagtcagga catcaagtgg gccctgcacg agctcaaagg 780
acactatgca atcacccgaa aggccttgct tgatgccatt aaaaaatggc aggagctgtc 840
accagaaacc ggtggaaaaa ggaagaagag aaaacaaatg aaccagtatt cttacattga 900
tttcaagttt gaacaagggtg acataaaaaat agaaaagagg atgttctttc ttgaaaataa 960
gcgacgacat tgtaggtcct atgaccgacg tgctctcctt ccagctgtgc aacaagagca 1020

ggagtcttat gagcagaaaa tcaaagagat ggcagagcat gaagactttt tgcttgccct 1080
acagatgaat gaagaacagt atcaaaagga tggccagctg attgagtgtc gctgctgcta 1140
tggggaattt ccattcgagg agctgacgca gtgcgcagat gctcacttgt tctgcaaaga 1200
gtgtctcatc agacatgccc aagaggcagt ctttggatct ggaaagtgg agctcagctg 1260
catggaaggc agctgcacgt gttcgttccc aaccagttag ctggagaagg tgctcccca 1320
gaccatcctg tataagtact atgagcgaaa agccgaggag gaggttgcgg cagcctacgc 1380
cgacgagctt gtcaggtgcc cgtcctgtag ctttccggct ctgttggaaca gtgatgtgaa 1440
gaggttcagc tgtcctaata ctcactgccg aaaggaaacc tntaggaagt gtcagggact 1500
ctggaaagaa cataatggcc tcacctgtga agagctggct gaaaaagacg acatcaagta 1560
ccgtacctct attgaagaaa aaatgactgc tgcccgcatt agaaaatgcc acaagtgtgg 1620
gactggcctc atcaaatctg aaggctgcaa ccgcatgtct tgccgctgtg gtgcccagat 1680
gtgctacctc tgtcgagttt ctattaatgg atatgacatc ttctgccaac atccccgctc 1740
accaggagcc ccttgccagg agtgttcaag atgctctctc tggaccgatc cactgaaga 1800
tgatgagaag cttattgagg aaatccagaa ggaggctgaa gaggaacaga aaagaaagaa 1860
tggagagaac accttcaaac gcattggacc cccgctggag aagcctgtgg agaaggtgca 1920
gagggtggag gccctcccga ggcccgttcc gcagaacctg ccacagccac agatgccacc 1980
ctatgccttc gcgcacccac ccttccccct gcctcccgtg cggcctgtgt tcaacaactt 2040
cccactcaac atggggccta tcccagcccc gtacgtgccc cctctgcca acgtgcgggt 2100
caactatgac ttcgggtcca tccacatgcc cctggagcac aacctgcca tgcactttgg 2160
ccccagccg cggcatcgct tctgatggcc ccgaatcccc attgagcagc acaaagcccg 2220
tttgggtag gagtgtggat ggagaaccct ccccaaggc tgggtgtctgt accattgcat 2280
cctaagtcag cttgaagggt aggctggttt tcttcccacc cctttcctag aagggtact 2340
gccctggaa gaggtagcgg atccataata aagacgtccc aaatggtgg 2389

<210> 802

<211> 2882

<212> DNA

<213> Homo sapiens

<400> 802

actttgcacc aggtcgagaa cgtgatcagc ccttttagaga aggaacctcc ttgtaacagg	60
aattctgctg ggaaacgccg tgtaggcact acctccgaag ataagatgca tgtttgagc	120
tgtgtaaaat gccactggc tgtttgaaag aaggaaaagg tgactagggt tgcaaattaa	180
ccttagtata acttaaaaat attctatcta gtcaaatgta cgtaagcaaa gaagagagca	240
ccaggatata aaactgccac agcagcttgg aagacagatg attcagattt tggggacttt	300
cttttgctg ttacatagat ttgtttgtca tcatgcagtt aagcaggtgt tgagggaag	360
ctgagagaat gaaggctcta aatccccagt ggaagcatga tatggcgaag cagagctggt	420
gctgaattgt tctctctgat ggctctatgg gagtggatag cactgagtct tcattgctgg	480
gttttagcgg ttgctgctgt ttcggatcag catgccacaa gccccttcga ctggctcctc	540
tctgataagg gacccttcca tcgctcacag gaatacacag attttgtgga cagaagccgg	600
cagggattta gcacaagaaa tatgggacac atttcttgct atctgctact ctgggaggag	660
aggagtcact cacaattttt gtggacaagc ggaagttgag caaacgagct gaaggaagtg	720
attccaccac caatagctct tcggtcactc tggagacgct acatcagcta gccgcttctt	780
atttcattga caggacagc acccttcgga gacttcacca cattcaaatt gcatccactg	840
ccataaagggt aacagaaaca cggactggtc ctcttggctg cagtaactat gacaacctag	900
attctgtcag ttctgttctg gttcagagtc ctgagaataa gattcagttg caagggttc	960
aagtacttct cccagactat cttcaggaac gttttgtaca agcagctttg agctacattg	1020
cttgcaattc agaggagag tttatctgca aggaaaatga ctgctggtgt cactgtggtc	1080
ccaaatttcc agaatgcaac tgcccctcca tggacattca agccatggaa gagaatcttc	1140
ttcgaataac tgaaacctgg aaagcttaca acagtgactt tgaggaatca gatgaattca	1200
agttatttat gaaaaggcta cctatgaatt atttctcaa cacatctact ataatgcatt	1260
tgtggacaat ggattctaatt tttcagcgcc gttatgaaca actggagAAC agcatgaaac	1320
aacttttcct aaaggcgagc aaaattgtac acaagctttt tagccttagc aagaggtgtc	1380
ataaacaacc cctcatcagc ctgccaagac aaagaacctc aacctactgg ctactcga	1440
tccagtcttt tctctactgc aatgagaacg gcctcctagg cagcttttca gaagagacgc	1500
actcgtgcac gtgtccgaat gaccaggtgg tctgcaccgc gttcctgccc tgcacagtgg	1560
gagacgcctc tgcctgcctg acatgcgcac cagacaaccg caccgctgc ggcacctgca	1620

acaccggcta catgctcagc caggggctct gcaagcctga agtcgccgag tccaccgatc 1680
actatatagg ctttgaaact gacctgcaag atctcgagat gaaatatctg ctgcagaaaa 1740
cggacagacg aatagaagtc catgccatct ttatcagcaa tgacatgctg ctcaatagct 1800
ggtttgatcc ctcttggtcgt aagcggatgc tcttcacctt gaagagcaat aagtacaagt 1860
caagtctggt ccatatgatt ttgggtctct ctttacagat ttgcttaact aaaaacagca 1920
ccttggagcc agtggttggt gtttatgtca atcccttcgg aggcagccac tctgagagct 1980
ggtttatgcc tgtgaatgaa aacagctttc cagactggga gcggactaag ttggacctac 2040
ccctgcagtg ttataactgg acattaactc tggggaacaa atggaagaca ttttttgaga 2100
cagtacacat ctacctgaga agtcgcatca agtccaatgg tccaatggt aatgagagca 2160
tttactatga acctctggag ttatttgacc cttcccggaa cctgggctat atgaaaatca 2220
ataacattca agtggttggt tacagcatgc actttgacct tgaagcaatt cgggacctga 2280
ttttgcagct ggactacccc tatactcagg gatcccagga ttcagcactt ttgcaactac 2340
tagagttcag agaccgtgta aataaactct cccacactgg tcagcgtcgt ctagatcttt 2400
tctcttgctt gcttcgtcat agactcaagc tgtctactag tgaggtggtg aggatccaat 2460
ctgctctgca ggcgtttaat gccaaattgc caaacacaat ggattatgac acgaccaaatt 2520
tatgtagtta accataaatg tcaagcaca cccaaaatct tgaaggagtt ttacagtgc 2580
ttttgtggaa cagtttatgt ttggaagagt aaatttaaatt tgtcttttca atatctgtct 2640
tatatcagtc aataacattg gatggcaatt tacacacatg aacttgctga caatgaatat 2700
attatacagc agttttggtt tatgaatgac ataaatactg acaccagtct agaagacatt 2760
ctacttttta caataaattt catttgtaatt ttatatgtt ccgtggcaat gcttttgtgc 2820
attacatcct ctgaggggaa cataaaaaga taccaataaa atttttagc tgaacagtta 2880
tt 2882

<210> 803

<211> 5671

<212> DNA

<213> Homo sapiens

<400> 803

attttcctat gcaaaagagc ccaggcagaa agacaaacct aaataagaat ctaacttctg 60
taagaagctg tgaagagtga tgctggcagc tgcctttgca gactctaact ccagcagcat 120
gaatgtgtcc tttgtcacc tccactttgc cggagggtac ctgccctctg attcccagga 180
ctggagaacc atcatcccgg ctctcttggg ggctgtctgc ctggtgggct tcgtgggaaa 240
cctgtgtgtg attggcatcc tccttcacaa tgcttggaag ggaaagccat ccatgatcca 300
ctccctgatt ctgaatctca gcctggctga tctctccctc ctgctgtttt ctgcacctat 360
ccgagctacg gcgtactcca aaagtgtttg ggatctaggc tggtttgtct gcaagtcctc 420
tgactggttt atccacacat gcatggcagc caagagcctg acaatcgttg tggaggccaa 480
agtatgcttc atgtatgcaa gtgaccagc caagcaagt agtatccaca actacaccat 540
ctggtcagt ctggaggcca tctggactgt ggctagcctg ttaccctgc cggaatggtt 600
ctttagcacc atcaggcatc atgaaggtgt ggaaatgtgc ctggtgatg taccagctgt 660
ggctgaagag ttcattgtca tgtttggtta gctctacca ctctggcat ttggccttcc 720
attatttttt gccagctttt atttctggag agcttatgac caatgtaaaa aacgaggaac 780
taagactcaa aatcttagaa accagatacg ctcaaagcaa gtcacagtga tgctgctgag 840
cattgccatc atctctgctc tcttgtggct ccccgaaatg gtagcttggc tgtgggtatg 900
gcatctgaag gctgcaggcc cggccccacc acaaggtttc atagccctgt ctcaagtctt 960
gatgttttcc atctcttcag caaatcctct catttttctt gtgatgtcgg aagagttcag 1020
ggaaggcttg aaagggtgat ggaaatggat gataaccaa aaacctcaa ctgtctcaga 1080
gtctcaggaa acaccagctg gcaactcaga gggctcttcc gacaaggttc catctccaga 1140
atccccagca tccataccag aaaaagagaa acccagctct cctcctctg gcaaaggga 1200
aactgagaag gcagagattc ccattcttcc tgacgtagag cagttttggc atgagaggga 1260
cacagtccct tctgtacagg acaatgacct tatccctgg gaacatgaag atcaagagac 1320
aggggaaggt gttaaataga ttttaagttc aaagcaaac aaactgtgat tattgtattt 1380
acttgtactg ctgcttatca atattgtga ctttacaac tgatataatt attaccatta 1440
ggaattataa aatatattca caatctacac tttccaaatg tgcaatgtgg taagtagaga 1500
accatgttag aagtaataat tgtttcagaa ttagaacttg gcttcccaa caatttaagt 1560
gttgtgtaa gatgttgctg tcaaagtgat tagacagcct ggctattctg tcatttgttc 1620
acagtggttt tactgggtac cccctaggac cagccctgta gtggaccggc tggagcctgc 1680

agtagaggtt ctgtcaaagc tgagccccctt taccttcagt ttcacccagg acctgctagt 1740
cctaatttta cctactaaat tgtatttcac ataaccaaaag ctcaaaatct actttcactt 1800
gagattttta acacattaat gataaatttt aatgcgttct tcatttactt aataagtgtt 1860
aatttacttg atgaaaagtc cgtatcataa tgttcatgac tgaaggtcaa agaaaaagaa 1920
acagcacctt attccaattc tggactcatt tcaagccatg gctggttctg gccaaagtta 1980
aataaattca gacttaaaact aaagcctgct tcagtgaact ttttaaagct acctgaatga 2040
gtcttcagtt tctaagtcta agaattgtag cagctttcca atgacattca gtagtctgat 2100
atgggggaaa aaataactta aaaaatgtcc tctcttcact tccaaaatgt gggaaagtta 2160
tttttctata agcagaaatg tgttcctcct aatatctcct ttctcccaag ataaaccatg 2220
gttaatgata taggtataga ttactcctca aatacaaata gaagatggag atgggtgatct 2280
ttcttgtaa tgggtactaaa cttaccctta ctcagaacat tgaacttgaa ccctactcaa 2340
cttttaaaat actataggct aagttataaa aataatctag caacctgaga aagagattaa 2400
tatcaaaaag agaaaattca acaaaccaag acagaatttg gttaagaata caaaataaaa 2460
agcataaggg caatgcagaa agcagtaaaa ctgtgtaccc agacatacgg taaaatctga 2520
gtaacaggca ataaccattc attttatagc aaggtaaaac ataccaata aaacatgatt 2580
atgatataat tctgccccctt ttaagtataa tgacattcac ccatgattct tgattacttt 2640
gttatggaac tcgggtatth tcaactgaaag tttccctcag aatagaaatg cctttagggc 2700
aaaccaagcc atggagaatc tgaaatataa aggatatgtt atggaaaaaa aaagattttg 2760
ctttttgtct atgggtttcc ggattctttg ctttttcata agtgggtcata gtttgctttt 2820
taacacagga ggtagggtctg tattcttttt acatccttca ttacaaattt tatttgaagc 2880
tcatgtattc aaataaagta aaatttaacc caagaatcca aaatattgtc ttgtgatatg 2940
gtagttataa aaaggattat cattgtctgt gattatttga ataaataatt tttatgttca 3000
ttatatgtag taaatttagg atgtaagctt ccagggtttg acactttaaa cttgtaaaga 3060
aataaaaata attacgcttt acttccgata aaaaaaaaaa aaaaaaaaaa aaaaggccac 3120
agcatcgagt cggccttggt ggccctactgg gttcctgcct cagggtttcc ctgatagcgt 3180
cagcccggac tacttgcct accagctgtg ggattccgtg caggcgtttg cttccagcct 3240
ctccggctcc ctagccaccc aggcagtctt gctgggcata ggggtgggga acgcaaaagc 3300
cactgtttca gctgccacgg ccacctggct cgtgaaagat tcaactggca tgctgggccg 3360
catcgtcttt gcctggtgga aaggagcaa actggactgc aatgccaagc agtggaggct 3420

ttttgcggaac atcctcaatg acgtagccat gttccttgag attatggctc ctgtataccc 3480
aatctgtttc accatgaccg tctccaccag caacctagcc aagtgcacgc tgagtgttgc 3540
tggtggggcc actcgggctg ccctgaccgt gcaccaggct cggaggaaca acatggctga 3600
cgtgtcagcc aaggacagca gccaggagac gctgggtgaac ctggcggggc tcttggtcag 3660
cctcctgatg ctccctctag tgctcaggtg ccctggcttc agccttgat gtttcttctt 3720
cctcactgcc ctccacatct acgccaacta ccgcgcggtc cgagccctgg tcatggagac 3780
cttgaacgaa ggccggctcc ggctggctct gaagcactac cttcagaggg gagaggtact 3840
cgacccaact gcagccaatc gcatggagcc gctgtggaca ggtttctggc cagctccgtc 3900
tctatccctg ggggtcccct tacaccgctt ggtctccagt gtctttgagc tgcagcagct 3960
gggtgagggg caccaagaat cctacctct ctgctgggac cagtcacaaa accaggtaca 4020
ggtagttctg aaccagaagg caggcccca gaccatccta agggccgcca cacatgggct 4080
gatgcttggg gccctgcagg gagatggacc ccttccagca gagctggagg agctgaggaa 4140
ccgggtgcgg gcaggtccta agaaagagag ctgggtcgtc gtcaaggaga cacacgaagt 4200
gttgacatg ctgttcccaa agttcttgaa aggactgcag gatgccggct ggaagaccga 4260
gaagcaccag ctagaggtgg atgagtggag ggccacatgg cttctgtctc ccgaaaagaa 4320
ggtcttgtga gcagcccaga cggaggccca agcccagggc aggaacctgg agcaaggaca 4380
ctttggccac agcaggacag gggaaaggca gctttatctt tccttagggc aactgcagcg 4440
gggtgggccag gccctcatgg gaagtgcact ccaatcagat gcagtgggcc ccaggcagag 4500
gaaggccggg agaaggggag ccaggacctt ctcacccac tgcccttcc cttttcttg 4560
ggagcaccgc aggtctctca ccccaacttc ctgtgaggct gtggcttatg gtgtccaacg 4620
cagttgtct taggcataga agccccagag gaacacggcc actgccatca tgagcagggc 4680
attgaggttg accacacggg ccagctcgg gtcctcgtg atgtcctcca gccgcctggc 4740
tgctgccgt gcctctctt gggtaagggg cggaggactg cccacccac ctctgctcat 4800
tccacaaaac cagagcaggc actggcggaa gaggcttggg gccagggcct ggggctctga 4860
gggaaattga ggccctgcag ttagtttgcg ggaactcagc tcctccagcc ccacctcca 4920
gcatgggtgc ctaccattca tctccatggc actctctggg caccattct gtacagggag 4980
tgaggagcct tgctgctcat cagcatccag gtcctccgt tcctccttgc tatgccggag 5040
actgaagacc aggcggtgga gctggggagg gtgggagcac gaacgaggtg ggagttctgt 5100
cccccatgc ctggccctaa agtctcttgc acaccagctc gtcactgcct gccctacca 5160

cctctgtcca gtctacacac ccagcccagg cttactcat gccactcca ccctacatgg 5220
ctgccctgtg ccctcgggat aaaccccaag cccctgagct tgtgtttaaa gccgttggcc 5280
ttgctcccc agctttgtca gctcaggtct gtctacacc agatggtagc gcttgtgaca 5340
ctggcctggc agtcctgctc acagtgttct gtgcctgtgt gctcccacc tttcctcctg 5400
ctgctgcaga aaccggcca tccttcaca ccagatctc ttgtcctgtc ctcacccac 5460
cctgccacca tcagccctgc ctggagccac ctgccctttg gcaacaaaac caaacctttt 5520
tgtgggcgtt caagatggta ttgtgccac cagtcagatc ctgtgttttg agtcccaaag 5580
gccatgccaa ggattggctt tgggaggctt taatcaccaa cccatcaaca tcaagcctcc 5640
cccaggccgg ttcaaataaa tgtattttaa t 5671

<210> 804

<211> 2382

<212> DNA

<213> Homo sapiens

<400> 804

gcagaccctc cctctcccc tccagcctgg acacgccgc ctcccttga ctccccccag 60
ctctgggccc ccacctccc tccctccag cacagtcacc cccatttctc tctatccgc 120
catcctggtt cctcccttc cccacctcc caactctgtg ccccgccaac gtttctctaa 180
tgccctctat tcagatcccc cctccgctc cctctctc tctccattc ctgcgtcccc 240
cttccccgc cgcgccgct gggctgtccg tggacttctc ccactctctc actctctcac 300
tctctctctc tctctctctc tctctctcac actctccctc tctctctccc cctcatttat 360
ttggaaccgt tggataagaa gtgctcgggc tctcgtcag acttagggag ctgcctcgag 420
gtgatgaatg acacccctg gcaccagcta cccttctcag accccagtcc agcccgtcc 480
cgacgtcgac tacgattccg ctacctggc tggcagcgag gttgggggtga gccccagctg 540
caggcgctc tgggctgcgc cgtgcaaac gagttgcga ccttggggcg ctcgcacct 600
gcaccgcac ccgcggggct cagccccgaa ggctgcagct tcgggggagg cgcggtcgcc 660
gaggtccagc tgggtggggcg agagacgtcg cccctcggag gatgctctcg gaacttggga 720

gaggaaggag ggaaaagaag aggggaaagg ggccgtcgat gtttttgatg tctgtgcttt 780
aatggaggcc accaatattg agaagacggg gttggccgag gcagcccgca cgctgctgct 840
tgcgagcgct cgagtcaaag ctagggccaa ccgcggcttg tccgggtgcc ctaagggggc 900
ggacacttgg tttagcaccg ggacacagaa tagccaccgg ggtaggaaga tgcgttcact 960
ttgcttacct gttggcaaga gggacataca aaaataacgt aacgtgacaa actgtaacca 1020
tacttaggga ggcagacgtc aaaggcaagt acatctgtat tcaactgggt aaaggaagag 1080
tttttcagcc tggcgtggtg gctcacacct gtaatcccag cactttggga ggccaaggaa 1140
gtctctactg attctaaatt tcacctctga tccgaaccct ggtggtctga tgatattact 1200
tctacttct gggacctcta ccctacgaaa ccacctctc actgaaacaa gtggatatct 1260
ttgtggttgc tgccacggga ttttaagagtc cttttttttt tttgatacgg agtcttgctc 1320
tgtcgcccaa gcgggagtg agtggtgtga tctcagctct ctgcagcccc cgcctcctgg 1380
gttcgggcga ttctcctgcc tcggcctcct gagtagctgg gattacaggc attcaccacc 1440
atgcccggct aatttctgta ttttcggtgg agacgggggt tcgctatgtt ggccgggatg 1500
gtcttgatct cctgacctta agagatcctc ctgcctcggc ctcccaaagg gctgagatta 1560
caggcgtgag ccaccacgcc cagcctaaga gtccatttga agcattttta ttctaagaaa 1620
atttatttcc atatgtagtt gggatgaaaa gtctatgaaa tccattcaaa acaaagggtgc 1680
tttcaactat actgtttgaa gttacagtgt tgtttcttcc cttatcctgt gctatcttaa 1740
gccatatgtt gttgtaaatt aacaggaaag agggcattta aaacaaatgg tttatgtgaa 1800
tagcattaat cccgtcaaga ctagtttgtg acaagggcta aagattgcac tcttgccctt 1860
taagctcaac caagttaaac atctgaacta tttctgctgt cttgtaaata ttaagatgta 1920
acacgtttct gatgtttgtt gacatttgtt gtacttttga tgaacaatta gcctgcaaga 1980
atattaacag gaaattccat tcatgagata agcagctgtt tgtgcaaagc ttcagccaga 2040
tcatgggacc aaaaatcttc tttatgcaac tactgtttgt tgaatagtca gcattccttg 2100
catgttcaaa aggaaatgct ttggaaataa cttttatggc taattttgac ttttatattt 2160
tcgtaaggag aaaataactt tcatggttaa tgttgactct tatacttgca ggtagtaaaa 2220
taatgtcctt tatcaccatg taaatttcaa acagtagtca ttgacaaatc cctagtaatt 2280
tccaaattgt aatgcagaat cctaaggctg gtgttaagat ccctgagtcc acgtcatatc 2340
ataatgcatg attattttat tgaaataaaa acctacaatt at 2382

<210> 805

<211> 2743

<212> DNA

<213> Homo sapiens

<400> 805

```
cagccccagc aagaacagga aactggagat tgaatcagat gccgagcgct cagaaactga    60
aacttaagaa atcgaaacta aacgtaagct tcagaaaccg aaacttaata gaagagctca    120
agagccgcgg ccagacgttt gcggagtcca gggctctttcg gagttgaatt tgcagctggg    180
ctccttcact ttggtctcgg cttttatctg cctccctgat aggttttttg tcttggtgac    240
ttcaagaatg aagctgcgga ctctcgctgt gagtgctaca gttgttaaag atggcgtgtc    300
tggagtttgt tcctttcgat gttcagatgt gtctggagtt tcttccttct ggtgagttcg    360
tggctcttgc gacttcagga gtgcagctgc agaccttcac agcgagtgtt acagatctta    420
aaggtggcgc gtccggagtt gttcgttctt cccgggtgggt tcgtgggttc actgacttca    480
ggagtaaagc cgtagacctt tgtggtccca aaccagttgt cttcctgcaa catggcttgc    540
tggcagattc tagtaactgg gtcacaaacc ttgccaacag cagcctgggc ttcattcttg    600
ctgatgctgg ttttgacgtg tggatgggca acagcagagg aaatacctgg tctcggaaac    660
ataagacact ctcaagttct caggatgaat tctgggcttt cagagttcct ttcttggaatt    720
acagttatga tgagatggca aaatatgacc taccagcttc cattaacttc attctgaata    780
aaactggcca agaacaagtg tattatgtgg gtcattctca aggcaccact ataggtttta    840
tagcattttc acagatccct gagctggcta aaaggattaa aatgtttttt gccctgggtc    900
ctgtggcttc cgtcgccttc tgtactagcc ctatggccaa attaggacga ttaccagatc    960
atctcattaa ggacttattt ggagacaaag aatttcttcc ccagagtgcg tttttgaagt   1020
ggctgggtac ccacgtttgc actcatgtca tactgaagga gctctgtgga aatctctgtt   1080
ttcttctgtg tggatttaat gagagaaatt taaatatgtc tagagtggat gtatatacaa   1140
cacattctcc tgctggaact tctgtgcaaa acatgttaca ctggagccag gctgttaaat   1200
tccaaaagtt tcaagccttt gactggggaa gcagtgccaa gaattatttt cattacaacc   1260
agagttatcc tcccacatac aatgtgaagg acatgcttgt gccgactgca gtctggagcg   1320
```

ggggtcacga ctggcttgca gatgtctacg acgtcaatat cttactgact cagatcacca 1380
acttgggtgtt ccatgagagc attccggaat gggagcatct tgacttcatt tggggcctgg 1440
atgccccttg gaggccttat aataaaatta ttaatctaata gaggaatat cagtgaagc 1500
tggacttgag ctgtgtacca ccaagtcaat gattatgtca tgtgaaaatg tgtttgcttc 1560
atttctgtaa aacacttggt tttctttccc aggtcttttg tttttttata tccaagaaaa 1620
tgataacttt gaagatgccc agttcactct agtttcaatt agaaacatac tagctatttt 1680
ttctttaatt agggctggaa taggaagcca gtgtctcaac catagtattg tctctttaag 1740
tcttttaaat atcactgatg tgtaaaaagg tcattatatac cattctgttt ttaaaattta 1800
aaatatattg actttttgcc ctccatagga caaagtaata tatgtgttgg aattttaaaa 1860
ttgtgtgtc attggtaaat ctgtcactga ctttaagcgag gtataaaagt acgcagtttt 1920
catgtccttg ccttaaagag ctctctagtc taacggctctt gtagttagag atctaaatga 1980
cattttatca tgttttcctg cagcaggtgc atagtcaaata ccagaaatat cacagctgtg 2040
ccagtaataa ggatgctaac aattaatttt atcaaacctt actgtgacag ctgtgatttg 2100
acacgtttta attgctcagg ttaaatgaaa tagttttccg gcgtcttcaa aaacaaattg 2160
cactgataaa acaaaaacaa aagtatgttt taaatgcttt gaagactgat aactcaacc 2220
atctatatcc atgagctctc aatttcatgg caggccatag ttctacttat ctgagaagca 2280
aatccctgtg gagactatac cactattttt tctgagatta atgtactctt ggagcccgt 2340
actgtcgta ttgatcacat ctgtgtgaag ccaaagcccc gtggttgccc gtgagaagtg 2400
tccttggtca ttttcacca aatgaagtgt gaacgtgatg ttttcggatg caaactcagc 2460
tcagggattc attttgtgtc ttagttttat atgcatcctt atttttaata cacctgcttc 2520
acgtccctat gttgggaagt ccatatttgt ctgcttttct tgcagcatca tttccttaca 2580
atactgtccg gtggacaaaa tgacaattga tatgtttttc tgatataatt acttttagctg 2640
cactaacagt acaatgcttg ttaatggta atataggcag ggcgaatact actttgtaac 2700
ttttaagtc ttaactttt caataaaatt gaggtagact tat 2743

<210> 806

<211> 2347

<212> DNA

<213> Homo sapiens

<400> 806

ggtgtgtgtc	cgagtgtgtg	tgcattgggtc	catgtgtgta	tagtgtgtgc	acattgggtcc	60
atgtattgtgt	gtgtatatga	gggagacacg	caggtgtgtg	tccgagtgtg	tgtccattggg	120
tccattgtatg	tgtgtgtata	tgtgggggag	acaggtgtgt	gtccgagtgt	gtgcattgggt	180
ccgtgtatat	gcgtgtatat	atggggggat	atgtagtgt	gtgtgtgtat	gaacaggtgt	240
aagtggggag	cactcaggtg	tgtctgtgtg	tgttcgtgta	cacgtgtgta	tgtgtgtgaa	300
catggagggg	tgtgtgtgtc	cgtgtgtagg	tttgcgtgca	tgcacacatg	catgtgtgta	360
ctggggcatc	caagcccctg	gtctccactc	cataccaccc	tacgcctacc	tccttgatct	420
ctgcgcccag	ccttggctgt	gtccccctgc	tgtctgcacg	tgggtgtctg	cacgtgggtg	480
tctgcatgtg	ggtgtctgtg	ccctcaagtg	tctcgtgtct	gcacgtgggt	gtctgcaccc	540
tcacgtgtct	cgtgtccgca	caagcatgtg	taggtgtccc	tgtctgggtc	tttgggtgggc	600
ggccagtgat	cctcgaggtc	acgcacgtct	tctgtgggtg	cctgtctctt	gcaccccaca	660
gtgtttgagat	gggtttgcat	tggccccgcc	tgtccccctgc	tcacccgcct	ccctctcttc	720
ctgtcttctaa	gccccgaaac	tctggattcc	ggggcccttc	acaggtgagc	acgtggcagc	780
agtgcctgca	gacccttggc	tggcccatct	gtctccccgc	ccgtctctct	gatctctctc	840
tgccaggctg	cccctgtctc	catccctctt	ctccctccca	ctgtcgggtg	ctgcccacca	900
gccaccccctg	ggtcccgtca	cagcccttgt	ggcctccgca	gctggggccc	ttgtctctcc	960
gcctccccca	ccctgtctctg	ttgccacctt	cctagaggcc	ctgacctgcc	ctctgccctc	1020
cagcgagaag	gactgcaga	gcaaccactt	tgaactgagc	ctgcgcactg	aggccacgca	1080
ggggctggtg	ctctggagtg	gcaaggccac	ggagcgggca	gactatgtgg	cactggccat	1140
tgtggacggg	cacctgcaac	tgagctacaa	cctgggctcc	cagcccgtgg	tgtctcgctc	1200
caccgtgccc	gtcaacacca	accgttggtt	gcgggtcgtg	gcacataggt	gagtagggaa	1260
cccagcgtgc	cgagaatagt	ggcgagggtc	gcccagactt	gcccagctgg	gctgtgtcca	1320
gtcacttgtg	accaggggtc	agggaggaca	cgccttgctg	cctgagccga	ggtcactgcc	1380
agtgggagga	ggaagggcca	agaagatgca	ggagaagcaa	tgatcagttt	ccacgtctga	1440
aaggcatccc	ggccctgccc	ggagcctgcc	gggggtcgtc	ccagtctgag	cctggccgctc	1500
gcctccagca	aagcttgagc	tgcaggaatg	tccccggcct	tggctcccag	tgccctcctt	1560

ggggtcaagg ccacctcatc cttgccccca ggggtgatac ctcgggggtt ctccaggctg 1620
 aggcacctgc agggcatagg aaggatgcag ggcttatggt ctagaggagg cagagggaac 1680
 tctgggccct gatggtctcc ccctccctgc acaccaggga agcagaggga aggttccttg 1740
 caggtgggca atgaggcccc tgtgaccggc tcctccccgc tgggcgccac gcagctggac 1800
 actgatggag ccctgtggct tggtagtgtt tttggggaga ctagagaggg atgccaagg 1860
 gtctcatgat atccgaggga cagactccac cccccagcgc ccacccttga gtcagggtgc 1920
 atgtgagccg gcgggctggg cctggccatg gctgtgttct tcatgtgttg attttatitg 1980
 acccctggag tgggtgggtct catctttccc atctcgctg agagcggctg agggctgcct 2040
 cactgcaaat cctccccaca gcgtcagtga aagtcgtcct tgtctcagaa tgaccagggg 2100
 ccagccagtg tctgaccaag gtcaaggggc aggtgcagag gtggcaggga tggctccgaa 2160
 gccagaaatg ccttaaactg caacgtcccg tcccttcccc acccccatcc catccccacc 2220
 cccagcccca gccagtcct cctaggagca ggacccgatg aagcgggcgg cgggtggggct 2280
 ggggtgccgtg ttactaactc tagtatgttt ctgtgtcaat cgctgtgaaa taaagtctga 2340
 aaacttt 2347

<210> 807

<211> 2156

<212> DNA

<213> Homo sapiens

<400> 807

gtactaacag gaggctgcca tccccattcc ttcacagctc ctgctgcctg ggcacaaatg 60
 ccctggagag tgagtgactg tcagaccagc cggaggggag caacgggaag agccgcttgc 120
 tgagaagagg tgggcttggc aggactgcag gtggagtact ctccccagtc ccctgcaggt 180
 gctggtctaa gccaagctgg gaggatggcg gccggccctg gccagcccc aggcaaggga 240
 ggagcctcgg ccagatggg gcaggtgggg agcctgggct caggtgtgtc ctgtgggaag 300
 tgattgctcc ctggctagca gagacagagg aaagcggatt gttggcccca ggaccagct 360
 ctgagaggct gggcttgttt ccctgactct gccttggagg aaagcaatgg aagggaagg 420

ggtaagaaac ttcaaggaac ttcgagccaa atttcaaaat ctigatgctc cacctcttcc 480
aggacctatt aaattcccag caggtgtttc tccaaagggt gacattggag gcacacagtc 540
aactcaaatt ttggccaatg ggaaaccctt ctcatccaac cacaagcagc gcacaccata 600
ctgttccagt agtgagtccc agcctcttca acctcagaaa ataaagttgg ctcagaagag 660
tgaaattcca aaatgttcta actccccagg gcctctggga aagtctactg tatgttctgc 720
aacaagttca cagaaggctt ctctgctgtt agagggtgact caatcaaagtg ttgagataat 780
cactaaggaa aaagtaatgg tggccaatag cttcagaaac aaactctgga actgggagaa 840
ggtttcatct cagaaaagtg aaatgtcttc agcccttctc cttgccaact atggaagtaa 900
ggccatccat ctggaagggc aaaaaggcat ggggcttact ccagaggaac ccaggaaaaa 960
gctggaaaca aaaggagccc agactcttcc ttcccagaag cacgtggtgg ccccaaaat 1020
attacataac gtctctgaag atccctcttt tgtaatttct caacatatca gaaagagctg 1080
ggaaaaccca cctcctgaga ggagcccggc aagcagcccc tgccagccca tctatgagtg 1140
tgagcttgcc agtcaggccc cagaaaaaca gccagatgct aggcattacc accttccaa 1200
aacaagcca ttgccctcca tcgactccct gggctctcct ccccaaagc cttcaagacc 1260
tcccatcgtg aacctccagg cttttcagag gcagccagct gctgttcca agactcaggg 1320
ggaagtgact gtggaagagg gctccctgtc tccagagagg cttttcaatg cagaatttga 1380
agaaccacat aattacagg caacaatttc atatctgaga cactctggca actccattaa 1440
cctgtgcact gcaaaagaaa ttgctgatcg tagatgcctg tgaagggaca cctgaaaaaa 1500
ttcagatgac caacgtccac acaggtagaa ggaacatgtt ggctggaaag caagaggcca 1560
tgattgacat catccagaca aatccctgcc ctgaggggccc aaagctggcc aggcactccc 1620
aaggccactg tgggcatctg gaggttttgg agtcaactaa agaaactcca gacctagggg 1680
tctctaagac aagttccatc tcggaggaga tatatgatga tgtcgagtac tccaggaaag 1740
aggtaccgaa gctgaactac tctagctcac ttgcctcaag tagtgaagaa aatagagaac 1800
tgtatgaaga tgtctacaaa acaagaaca actacccaaa gatagattta gatggaaaag 1860
aagcactcaa aagactgcag caattcttca agaaagaaaa ggatagattt aaaataaaga 1920
aaaccaagtc gaaagaaaac ttaagtgcac ttccatttt gctgcctgat ttagaactta 1980
agtctcagga agttattatt tatgatgatg tagacctgag tgaaaaagag tcaatactt 2040
tgttgaataa gaatggagag agtgggcac ccatgtcttat tccagaaaag ctggaagctt 2100
ttccctgtta gagatgaaga taaactgaaa atgtggaagc ccaagtttct gacacc 2156

<210> 808

<211> 2364

<212> DNA

<213> Homo sapiens

<400> 808

```
gcgtagcgcc gcgggtttga tgaacgcggt tcccggggag actggtacgg ttgctgtgtg    60
ctatggagcc gagggtcgtc aagccaccgg ggcaggattt agtagtggag agtctcaaaa    120
gccgctacgg actcgggggc agctgccccg acgagtatga tttttcaaat ttttatcagt    180
ctaagtataa gagaagaact ctaacctccc caggtgattt ggatatctac tctggagata    240
aagttggttc atcgttaaaa tattctgatg aaagcaagca ttgtagaaca ccattgggca    300
gcttattcaa gcacgtaaat gtgaattggt taaaaaatgt ttttacattt tttctcagtt    360
atgctgttaa tatttgaaaa gcagttttat ctttttaaag tgctatagta aacttctaga    420
ttgctgtgat acaattattt ttttaaagcc tagatgatga actggattct ttccatgatt    480
tgaagaaaca ggaaacagaa gaagagttaa ttgaaaatga ttatagagtt agtacctcga    540
aaataaccaa gcagtctttt aaagaaatag aaaaagttgc cttgccact aatacgacct    600
catcgagacc tcggactgag tgttgtagtg atgcaggatga ctctcctttg aaacctgtca    660
gctgtccaaa atctaaagca tcagacaagc ggagtttact tccacatcag atcagtcaga    720
tatatgacga attatttcag atacatctga aattgcagtg tgaaactgca gcacaacaga    780
aatttgctga agaacttcaa aagcgagaac gttttttact tgaaagagaa caactgcttt    840
tcagacatga aatgccttg agtaaaatta aagggtgttg agaagaggtt cttacaagat    900
ttcaaattat aaaagagcag catgatgcag aagttgaaca cttaccgaa gttcttaagg    960
aaaagaataa agaaaccaag agactgaggt cctcttttga tgcattgaaa gaattgaatg   1020
ataccttaaa aaaacagtta aatgaagcaa gtgaagaaaa caggaagata gacattcagg   1080
ctaaaagagt tcaagcacgt ttagataatt tacagaggaa gtacgagttt atgacaatac   1140
agagattgaa aggaagttcc catgctgttc atgaaatgaa aagtttaaaa caagaaaaag   1200
caccagtttc aaaaacttac aaggtaccac ttaatgggca agtttatgaa cttttaactg   1260
```


tcttcatgga ctggatttcg gatcatcatc ttagcaaagt gaaacatgaa gaatctggaa 1320
 tggatggtaa aaaaccacaa ctcaaatttg cttcccagag aaatgatatt caggagaagt 1380
 gtgtaaagct tttgcctcta atgacagagc agctacagtg gatgccattt gtgaatatca 1440
 aacttcacga gcctttttgta aaatttatat attggtcctt aaggcagcta gatgctggag 1500
 cacagcactc gactatgaca tcaacattga ggagattggg tgaagacatt tttaaaggag 1560
 tggtaactaa aggaattcag gataattctc cacagcattc tgtggagaat aaaccaaaga 1620
 cagctgcttt ctttaagagc tccaatttgc cattgagatt tttatcaacc ttaattgttc 1680
 tcaaaacagt cactcaagct gattacctgg cttaggcatt tgattctctt tgtttggact 1740
 tgaagacaga agaaggaaaa acctgtttt tggagtatca ggctgttcca gtaatattaa 1800
 gtcactaag aatatccagt aaaggactcc tgtctaattg tattgatagt ttgctccaga 1860
 tgacggtgga atctagagta ataagaagct ctttgaactt tttacgattc atctgatgct 1920
 tcaagaaata caaaggacaa caaaccaga gcatgcattt ctctgtatta atctaaattc 1980
 aactctgttc aatctgggtt taacaaaatg taactccctg gtctccagtg caagccctta 2040
 gactggctaa ttttttaata tagtatatgt ggtgcttatt tataaacatg tagaaattac 2100
 caaagtaact acaattctac caagtaaagt tatcagtagc atcatttatc atgaaaaata 2160
 aataattttt ttgaactgta aaaatgaaat ctgtagaagg tattggaact tttggaatgt 2220
 ttcagttcag gtaaggtagt actaatatac aagatggcgt ttctagaatg tatgacactg 2280
 aagtgacttt ttgtaaaaat atattaggaa aattatttct taaaattatg tgaatatttg 2340
 gaataaaatt ggtgcttatg tgag 2364

<210> 809

<211> 3327

<212> DNA

<213> Homo sapiens

<400> 809

gttggcctac tggacttgaa acattctgag tgtgcctgca gtagggtctc agaggagtgt 60
 ctctgaaagc tgttgagagc agccaccttt gctgtcactg agagcttggc agggctcagct 120

ctggtgggcc gtttgcaccc aggctctgat ggcaccagga tggcttcctg caaccggaa 180
cctgatcctg gccccggca gagcataagg gcccgaggcc agggacctag aggccggacc 240
aagttcgcgc gaggtgttca cagcctaggc gccccgggct tggcttcgta ctctgcaaca 300
agccaagctc ccttgccacg agtatatcag caacttcaga aataaacacc agcgaaaccc 360
cttcccacat tagcttgttg ctgtgctact gacactgggc ttagtcgatg ttcacaccta 420
ttacattttt ccggaagtg ggaggagcag ggggtagaga aagctgtgtg tattgaggga 480
aggggagatg tgtgcaacac cttccagaaa aatggggagg tagtttagaa agtttttctc 540
tgtaacagca cagcttctga gaagcgagag agaagaaagc agacaggaaa cgaatccctt 600
cctcctctcc cctttacccc ctctcttcac tccctagacc aagctggtca cccggctggg 660
aatcaagatt gtgtggctgg gaagacacca gtctctgtgc tcgggttcag ccagtcggg 720
caagaaagtc tgggcagctg gagaaggctg tcacagtctc ccgtggaatc ttgttgcttg 780
agagcccat aacggaaagg gctaagacga ctcttcaca cacaggtcgc agcccctgcc 840
gcggaggatc cccaggaaga tgctggggac gctctgagca tcggccttc tttacccccg 900
actccctgga gcttggtctc gggatgccaa cttggggcac ggaggcgacg agctgctccg 960
aagctggagg gtttctgctt gggtcagagg gatcacgacc tcagcagagc caggagaggt 1020
tgggtgacac cactgcgta ttgcacttga ctcaaaactg ccctcggcct gcggaagagg 1080
cgagggaag aagcctggtg gcgggtcaaa ccttcaccct attattttct atcatttttt 1140
atgcccata atttgttaa tgtatggctg ctatacaca acagcttatt ctacaagaag 1200
tgccccgag gaggattggg ttaagctttg caaatttggc ttcccaggta atgcgcttca 1260
ttattctgct cccgacttac ccaccacacc agtgggtacc cggagcagca cccacttggc 1320
agaactgatg actgcttggg cccagcggag tgcgcatcgc gctaacacgc gcacgggaat 1380
tgacccttg ccggagcctc cgtaccgtgc gcccttcaaa gagctggcga cccgctcac 1440
gtgtaagcaa cctcccactt tgaaactaat tcgcaccgg gtctttcacc ccaaaggact 1500
ttgctgcgga cgctgctctg acccaagacg cgggagagaa gtcccaaagg ctacagccag 1560
gggctggggg actcctctgc tcaccttagt ccttgatttc gaaggcccca attactatc 1620
tgttgtgtca gaatcggcga gtgcaaagta gctgcgcccc gctgacgcgc tctctcctgg 1680
gtccgggtat cccagggcct ccggagctgg ggagggttgt gcggactacc caaggcacgc 1740
gcagataccg ggcagggaag aagggtccg tgttccaagg atggtcgttt acctctcctg 1800
agatcagccc taatcccttg gtaacttaag cgcctctgaa ctcggggagc gcttggtggg 1860

ggcctccct gcatccacc ctaccctgg ctcttccca ggcccagcat ctttcccacc 1920
 attctcacc ccaccaccc caggccccc cccgtttaga ggcgtgcggt gggcacttgg 1980
 ttacagaac cggcgtttca gatgtttatt tgcaactaat ttcttgtgct ggaaaatgct 2040
 tgttaccgg gcggagcgct tccgctctgc gcggctcggc ccggcgggcg gtagctcgct 2100
 gatccctccg gcgaagcctc caaggagcgg gcggctggga gaggttgtgc caccggggac 2160
 caagccatcg gcgctgctcc ggactcccgg taggggggagc cgccgcgggc gccaggccgg 2220
 attgtgttct ggcctcgggg cggccctgct gccagcggcc gggactctca gcacagagct 2280
 cgggaggact ccactgctc tccagataag gcgcatgag cagagaaggg aacagacggc 2340
 caagctccct cctaattccc cgttgttgca gagcaaagaa gatgggggag aactaattat 2400
 attctctagg tctaaatatt gttgaaaaat ttgtaggtga gatcacctcc ttgcccata 2460
 tccatatata atatatccat tacatgtgtt tgcccatata tatacgtatg ccatatgtaa 2520
 atatgtacga gtgtgtatgt atgtgtatag cagtggttta gaattagtct cagttccaca 2580
 aattttgagc ctttttaata ttttaggtga cctaatacct tctcactgta ttttccaagt 2640
 cacttatctc caagagtttt aggtgatccc agcataggag ctgagcatag gagctcagat 2700
 gagacttgcc agttttgctg cagtaatgtc agcaaaagag tctctctctt tctgactcta 2760
 tagacttaag taagggttta caggctttca ttttaaggta tgactgatat ttagagaaca 2820
 agactaaacc aagggtcaagg ggaaaacagt tagactgtga acctgcagac cactccactg 2880
 caccagtggt ggccgtacac ctgtgctgaa cggccagaga cttcctggtc aatactccca 2940
 cagacaaaag actgcaggat ctgcttatac acaaattccat ctttcgctgg gaaccacaa 3000
 ctcataacaa ctctcctaatt gccaaagtcac caaggcctct tgaaagagaa tcataaaaaa 3060
 caaagaattt caaacttgga aggaaacct aagtttactg gtgaggagct tgaactgagt 3120
 agaagcaaag aatcatactc cagatgagaa acgccccatg cactgagctg agactggaac 3180
 tctcctcttc ttactctcag tccagtaagt ttgactacag agcactcatt atcattatga 3240
 ttattatggt cccgcatatt ttgtcgttct tagttaggca tactccttta acactattgt 3300
 aataaaagca aaatctggaa gatcttt 3327

<210> 810

<211> 2315

<212> DNA

<213> Homo sapiens

<400> 810

```
aaaacaaccc tcatggcgcc gaaatccttt ccatgccgac aagcccgcc tgggcgcacg      60
agtggatgct tggccagcct ttcctgggat cgaccccgcc gccgtgctca gccctcacca    120
cgccccatc ccacccacg cctcacagcc ggggttcctg gccagcttcg gaagccaccg    180
agaaatagga ttccgtgcmc ccgagagaac ttttcaggg gctaaggaat cggccagccg    240
gaggcgcgag aaaagtcttg ggaaggcggg tgcacctagg atgggtggat gccacggggc    300
ctccgtccag gctgtcccgt ccgcacgggt cgactgggtca ccttggaatc ccctttgcag    360
gtcccagcgc cccccgggaa cccgcagcct ccgcggagag cgtgggcctc tccctaccgc    420
tggggcgagc cgcagtgcac gcctgagggt ggctgccggg ggctgggcac gccccagtc     480
ctgcgccgcc gggggctgcm gcggtgctgc ccacccaga gagccctcgg cctggggctc    540
cggcgaagca agtgccttcc cggcgccggg cgccaggggg gcgcgggagc agccagatgc    600
gccgcagcgc tgggaaggcg gcgaaggaca ggggctaggg gagtgagggg cgctcggcag    660
gcagcctcag ccctggccct gcgcgggaga agggacagca gagaccgcc gtggggcccc    720
ggggtgtagg gagctgtccg ttcagccctg gcgcccgcct cgcccgcggc agagggcggc    780
acagccggag ccttggaaag accggcagcg ccggcagccg cgggcttctc ggccactgcc    840
tcccggacgc acgggaagcc gccccccgcg ccgccgccgc cgactgccg ccgtcgcaga    900
ggggtgagga aatcaactca ccgagctctg gtcgccgaca agaggagccc cggacgccgg    960
ctctcgccct gcccagggt gcaaagtgt ggactcggcc cggctggctc gcagcctgcg   1020
cttcgcttcg ggaactgggc aagtagcggg gatgtgggga ggaggagcg ggcagctgct   1080
ggcttccac ttgggcgcca gcgagtaagg gccaggaagc ggcggggatg gcagctgggc   1140
acccccagc cccgccacc ctcctccgc tcctgggggc ggtgctctgg ccgccagtct   1200
cagcatcgtg gacttgcccc ctctccct ctcgattccc cttgagcggg ctggggcgcc   1260
ctgcctggtt tcagcggccg ttccagctgg gagattggga ttcagccctg atgtggattc   1320
tccagccatc atcctgcct tccctctcgg ctaggtccca cgacctccc tgctctccac   1380
tcggactgaa ggaaccctgg gggcttgaga ggctcagctt ccagggaac acccatgaag   1440
atcagcgtca tctcctcgga agggctgtgt acagagggtt gggagttggg actctggagc   1500
```

ctgtctacct gggtttggat attcaccatt cactactgtg agatctcaga ttccagtttc 1560
 ttcgtctgta aattccagtg tgatcttaga ttccagtttc ctcatctgtg aaatagagat 1620
 atgaggggta aatgacaatc tatgtaaaac ccttaaacag ggccctgccca gggcaagcac 1680
 tgcttgatta gatcataatt agacactact tatcggggccc ctactaggta gcaggcattg 1740
 tgctaagcct ttagcataag atgcttcctt aattctctca gcctgatctg tgaagctggc 1800
 tgagcccat tctggagatg aggaggttga agctcagaga agctaagtct catgtctaag 1860
 gtcatacagc cattaagtga cagagcctgg acttgaacct ggttctagca ttaatgctcc 1920
 tgactcagc ctctacacag cccagcatca ccctgggacc cacgggcagc tctgatttga 1980
 gagaaggaaa gacaatggga gtttatccag acacagagct tgaacttga gcttcttctt 2040
 tgagcctcac cccaccttc ttatttctat ttccttcccc ttccagggt cgcctattct 2100
 aaggtgggta ctgtgatgcg ccaagagggt agtgacacca atgtgtatca aacagtgggg 2160
 ggtgggggga gcagagcctt aaaaacatca aacactgcag gaatattggt gccatcacca 2220
 tcctcaattt cctgggtgtc gcagctcacc tacctgccct gttcctctcc tctcggtgat 2280
 ggcatactta ataaataaac atttattgct ttctc 2315

<210> 811

<211> 2733

<212> DNA

<213> Homo sapiens

<400> 811

cgctctctct ctctctcaca cacacacaca cacacacagc ccgtctcgcg cctgaggtct 60
 cgcccgagg cgggtggcgc ggggtcagct gctgcctgcg gtccaggaca gggtcggttc 120
 cgccgcgcag cgcccaggcc cagctcgtcc agagtctgcg gacagcgcac gtccagtcgt 180
 ggcattcctg gtggctttcc atcagaacaa gcagctcatc ggtgacaggg ggctgcttcc 240
 ctgcagggtg ttcctgaaga acttcagca gtacttcag gacaggacga gctgggaagt 300
 cttcagctac atgccacca tcctctggct gatggactgg tcagacatga actccaacct 360
 ggacttgctg gctcttctcg gactgggcat ctcgtcttcc gtactgatca cgggctgcgc 420

caacatgctt ctcattggctg ccctgtgggg cctctacatg tccctgggta atgtgggcca 480
tgtctgggtac tctttcgcgg ctcagcacgt cactttggac tgtcgcgcag aaattcagaa 540
gactcgtagt agcttcggca gtgctctccc tgccttccga gcagccatgc gtctttgaac 600
tgtcttccct tccctgatct tggagaacat agagctgcca gttactgagg atgggagttc 660
cagcttctgg agacgggggtt cctggggatc ttcctgtgcc ctctgtggac gctgtcaagg 720
ctgccccagc atacccccac atcccggatt gtcctgtggg gcttccgggtg gctgatcttc 780
aggatcatgc ttggagcagg cctgatcaag atccgggggg accggtgctg gcgagacctc 840
acctgcatgg acttccacta tgagaccag ccgatgcca atcctgtggc gtactacctg 900
caccactcac cctggtgggtt ccatcgcttc gagacgctca gcaaccactt catcgagctc 960
ctggtgccct tcttctctt cctcgccgg cgggcgtgca tcatccacgg ggtgctgcag 1020
atcctgttcc aggccgtcct catcgtcagc gggaacctca gcttccctgaa ctggctgact 1080
atggtgcca gcctggcctg ctttgatgac gccaccctgg gattcttgtt cccctctggg 1140
ccaggcagcc tgaaggaccg agttctgcag atgcagaggg acatccgagg ggcctggccc 1200
gagcccagat tcggctccgt ggtgcagcgt gcagccaacg tctcgctggg cgtcctgctg 1260
gcctggctca gcgtgccctg ggtcctcaac ttgctgagct ccaggcaggt catgaacacc 1320
cacttcaact ctcttcacat cgtcaacact tacggggcct tcggaagcat caccaaggag 1380
cgggcggagg tgatcctgca gggcacagcc agtccaacg ccagcgcccc cgatgccatg 1440
tgggaggact acgagttcaa gtgcaagcca ggtgaccca gcagacggcc ctgcctcatc 1500
tccccgtacc actaccgct ggactggctg atgtggttcg cggccttcca gacctacgag 1560
cacaacgact ggatcatcca cctggctggc aagctcctgg ccagcgacgc cgaggccttg 1620
tccctgctgg cacacaacc cttcgccggg agggccccgc ccaggtgggt ccgaggagag 1680
cactacaggt acaagttcag ccgtcctggg ggcaggcacg ccgccgagg caagtgggtg 1740
gtgcggaaga ggatcggagc ctacttccct ccgtcagcc tggaggagct gaggccctac 1800
ttcagggacc gtgggtggcc tctgcccggg cccctctaga cgtgcaccag aaataaaggc 1860
gaagaccag cccctcggcg gctcagcaac gtttgccctt ccctgcgccc agcccaagct 1920
gggcatcgcc aagagagacg tggagaggag agcgggtggga cccagcccc agcacggggg 1980
tccagggtgg ggtctgttgt cacatactgt ggccgctccc aggcctgcc cacctggggc 2040
cccacatcca ggccaaccct tgtcccagga gccaggggct ctgatctccc atccatccca 2100
ccctcctccc agaggcccag cctggggctg tgccgcccac aggagttgag acaatggcca 2160

tcttgacacc ttctccact acagccctga ccatagaccc agccaggtag ctcttggggt 2220
 ctctagcgtc ccagggcctg gtttctgttc cctcttcaat ggtgtgttcc cagccaggtc 2280
 ctgaccctca gagccaagtc cctgtcacgt ctggggcagc caaacctcg cccacaggg 2340
 acctggacac gcccggccag gatgtggggt tggatgggcc attttctgtc ctatccctca 2400
 tctccacccc cgccacagcc tacacgcatc ccacacatgc aggcacacac agcctgtgca 2460
 cacatgtgtt ctggcccgg tttcatcccc ccatgactgg tgtctgtgag gtgcagatgg 2520
 acacagcgca caccagacc ctccaccagg ctgtgacctc gctgcctctg aggccttgac 2580
 aaggccctc aatcggagga cagccggcgc tgcacacttt catcatcgtc ggacaaacag 2640
 cgtctactgc acatttttct ttttctatt cttcagccat agctatggca tattcttcta 2700
 ctattcctat tataccactt accagcttac tcg 2733

<210> 812

<211> 2459

<212> DNA

<213> Homo sapiens

<400> 812

tgtgctcttg tgtccctgcc gttccactgt ggggggttggg ggagccgagg ggcttatggt 60
 gagcactgag actggtgatg tgggagggcc acagcaggct gtggaaggga gtttgggttt 120
 ctttcagagt ccagaaggga taaggagggg ttttaggcca gggatgatctg gtgagatttg 180
 agggttctgt ggggctcacc agggattgtg gatgtgccag gctgggtccc tgggcctccg 240
 agtatccaag aggccggctc aaagctggat caggctcctc cgccaagagg accctgggca 300
 gggctcttgg tgggagggcc taggggccag gggtcagaga ggactagggc cgtgctctcg 360
 gcctctacag cctgagcatt catccagtcc aggccttcag ctcggctccc gcctaccctg 420
 cctgtctcat ccgtctgccc tttctggcct tggagaacct gaccagctc agagacagct 480
 gagggccttg atggtgggct agacagagga aggaaggggg tcttgagggtg ggtctggaag 540
 cttccttggga ttctctcttc ttgctgccag gggccagtga ggtttactgg cagctgcagc 600
 ctcgcccagg tggcctgagt gtgttttttg atccccctg tttctgccac cccaggcaga 660

tccccagag cctgttcctg tccctgccct ttcaggtttg ggtcatgagg atgggcaggc 720
aggggcctca tgcactgaca cagcttaggg gtaggccccca gggatgggga gctttgact 780
gtgaaggaga gcaactgggca gggatatccag aggactgggc tgagtccac gctgccctgg 840
cttgggtggga gtctggaaga ctgtcccttc ctggctctgg caccagcccc acccctcca 900
agcaagggtc atattagcca gtccctgagt cccccacgc tcaactcag gggatggatt 960
tttgtgggag gggcaggctg gggccggcgg ggaggcctca agcctcatga tcctagtgtc 1020
catctagccc tgaagagagc ccagccagtg ggagctggat gatgtcaagg gcagtcttgg 1080
gggtgacgag gggacaaggg ggaggagttt cctggggaca gggaaagccc tcagagccct 1140
ctcccactct tcctaggcaa caagcccaga gtccggagta tccgctttgc ggcaggccgc 1200
gatgcagaag gatccacag ccacgtccac tttgatgaga agctgcatga ctcggtggtc 1260
atggtcaccc aggagagtga cagcagcttt ctggtaagg ttggcttcct gaagatcctg 1320
cacaggtatg agattacctt cactctgccc ccagtgcaca ggctgagcaa ggatgtccgc 1380
gaggcacctg tccccagcct gcacctcaag ctctcagcg tgggtcccgt ccctgaaggt 1440
tatagtgtca agtgtgagta ctggcgcac aaagagggcg tcctcaaaga ggagatactg 1500
ctagcctgcg aaggtggcac tggcacctgt gtgcgcgtga cgggtgcaggc ccgcgtcatg 1560
ggtgagagcg tgaggctcct ggttggagga gggatgcaca agctcgactg cgagggtttc 1620
tgtcctcctc agggaaacaa ggctgaacaa gggatccttg cccggctcag gggttctcaa 1680
cctccttggc aggtccctac ctccagctga tccctgaggg aaggggaggg gtccccttag 1740
tgggccgcat ggggtggggc gggggccagc atggcactga cttgcaccct gccttgcaga 1800
ccggcaccac ggcacgcca tgctgctgga tgggtgtcaag tgtgtgggcg ccgagctgga 1860
atacgactca gagcacagcg actggcacgg ctttgactga ggcccgaggc cccgcctgcc 1920
ccgggccccct cagccttaaa cccgccttg tcccccgac atgctgcgtg atgggtgtggc 1980
ttcctcgccc ctctctgggg tgggtgtggg ggtggagtgg ccttgccac gcctctcacc 2040
tctgccttca tttgtgctgc caccctgccc ctccctcgtc ctctctccc acttcctcct 2100
ctctgtgtgc ctcaagtctc tgccggaaga aatgggttga gcccgaaagg aggctgtctg 2160
aggaaggag agggagggcc tggggtgggt cccccactcc ccacccaag tcacagggac 2220
tcccaccagg gtctgggaga ggacggagct ggctctgtgg cgtcgtggcc ccattactgc 2280
tgccttgctt cagccacctc tcctgcccc ctctagtccc cactgctgtc caccatgagt 2340
aggagggagg tgcagtcccc agccccacc cctcaggtct gtgttacttg gtttttaagc 2400

gactggttgg gatagaaccc taaagaaata aacttccggt ggataccgga ggccaggtg 2459

<210> 813

<211> 2949

<212> DNA

<213> Homo sapiens .

<400> 813

tactgccag ctgtcatgcg cagcctctgt gagggccgat gacctcctgg actgccagcc 60
catcccagac agtcccggtc tttcacatcc tcccacctct gttctctctc ttctgttctt 120
cctagagagg ctgcctccga agagtgaggt tctgcagctg cccagcccc tcgcctcctt 180
ccacactctc ccaggaaaat catccaaaga gctttctggt cccctccctt cccctcttct 240
gtgccctgca gattcacgat gaccccgcc tccattccac tccccttaag gagggagtcc 300
gtcctgcca gggatgaggg cctcatgcct ctgcctctcg ctgttctctt tgagcagtca 360
ctattaacta ccaccaccta gcggccagcc gcgcggcctc ggtggacgat gatgaggaag 420
aggaggataa actgcacgcg atgctctcaa tgatctgctc gcggaacctc acagctccca 480
atccgatgaa agacgctggt gacatgatcg agatgcaggg ctttgggccc agcctgccag 540
cctggcacct ggagcccctg tgcagtcagg gctcctcctg cctctcctgc tcctccagca 600
gctccccaca tgcaaccccc agccactgta gctgcatccc cgaccggttg ccgctcaggc 660
tactgtgtga gagtatgaag aggcagatcg tgtcccgggc cttctacggc tggctggcac 720
actgccgcca cctgtccacg gtgcggaccc acctgtcggc gctggtgcac catagcgta 780
tcccacctga ccggcccccg ggggcctccg cgggcctcac caaggacgtg tggagcaagt 840
atcagaagga caaaaaggtg ccaaccctgg ggttccaggg ccacaggtcg aggggctggg 900
gcgggcagga gtgagggctt cagggtaaaa tgtgccagtg ggtgcggttg acaggccagg 960
gccgatgcca cggagtgacc aggggtcccgg cagaatctct tgcagctggg cctggggctg 1020
acacgggaag ggggctggac tgggaagccg tcctgcctcc acatcgccct gtgaccctgg 1080
acaaagcttt gcctctctcc gggcgccatt tcctgcccct taaggaagga gagcagaacg 1140
agatctcatc ccactgtgag ctggggcacg ggaggacgtg gccaccccaa agcaggcctt 1200

gcctgggctt cagcagtcac tacaggcccc gccccagccc attctccgtg ggatggggct 1260
caccagctg ggccacggtg actgtggagg ctgcacagtc ttgactcccc gggtcctca 1320
gaactacaaa gagctggagc tgctgcggca agtttactac ggaggcatag agcacgagat 1380
ccgcaaggac gtctggccct ttctgcttgg ccactacaag ttcggcatga gcaagaagga 1440
gatggagcag gtgaggggag cctgttccca tggggctgat gagatgggga gctgggccag 1500
gggacgccag ggaggggacc ttggaagcct cagccccttc ccagccggaa agaagcatgg 1560
cagggcagct ccaccgtcct taccctgagg cccgtcttga gtctgagact caggacccaa 1620
ggtcacagtgc aggcccagct cctgaagggg agggccttgt gcacgcttcc cccatggtcg 1680
tgggtgtggtc tgagtacagg tggacgcagt ggtggcagca aggtaccagc aggtgttggc 1740
agagtgggaag gcctgcgagg tgggtggtgag gcagcgggag cgggaggccc acccagccac 1800
acgcaccaag ttctcctcag gcagcagcat cgacagccac gtgcagcgcc tcatccaccg 1860
agactccacc atcagcaacg atgtgagcca gacgggacct ggagggttgg gggctctcggg 1920
ggccacccgc gttttatgca cagtggctct gagcaccagc ctgacctctg ggaactggtg 1980
gggccctgcg agaaaggcct aagggtgcctg tgtctcatth tctccaactg gaaatggcta 2040
actgtgcctc tgctgcctac ttctctgggt attgtaggaa taaagtgaga gagtgcattg 2100
tgctcagttt tagccaacta tagggaaaga tggacttact gggatttagg gaagccctcc 2160
tcctttaga aagacctcaa agctagcaac aggcagcgct gggttctagt ccagatcca 2220
ctactgacaa gctgaatgtc tctgggcaag cacttcccgt ctctgggtct cagtttcccc 2280
tctccacca tctctctga ctgcagaggc ttcctgagat ctgtgggcct gagaataggg 2340
gagcccgtag agcagcccca ttggtgtcga ctggcgagat ccttccctcc cgcgatgttg 2400
cctgtcactg tacagaactg actatggcag gcttgttcgg agcacgggag ggtagctctt 2460
tctggcatca ctctgcctt ttgaacagca agttctaaac tgtgactgcc tggcccaacc 2520
aacactgata agtttcaatt ttaaggacgc ttatttaatt tttctttaa attgcctctt 2580
tagataatgt gtattcttgt tactttacta aatccttacc aacattaaca gaaaatgtaa 2640
gttgaagtag gttaaata actggctggg tgtgatggct catgcctgta attccaacac 2700
tttgggaggc agaggtggga ggattgcttc agttcaagag tttgagacca gcctgggtaa 2760
catggcgaaa ccctgtcttt acaaaaaatg caaaccttg ccgcatgtgt tggggtgcgc 2820
ctgtagtccc agcttctcgg gaggctgagg tggggggacc acctgagcca tggaggttga 2880
ggctgcagtg agccgtgata ccaccactgt actctagcct gggccataga gtgagacacc 2940

ctgcctcac

2949

<210> 814

<211> 3172

<212> DNA

<213> Homo sapiens

<400> 814

agacctagac aactcggaag tgggtttttc agcctcctgc accggtgtcg cgtctgagtg 60
cgactgatga gccagggggc gtcggtggaa gcttggggga gaggctagtg gtaacaggcc 120
gagctggatg gatgggtatg gggagagggg caggacgttc agccctggga ttctggccga 180
ccctcgcctt ctttctctgc agcttccccg cagctattaa aagaagccca ggaagtttct 240
gcgcagcgtt ggagatgagg agactgtgga atttgatgtc gtggaaggag agaagggtgc 300
agaagccgct aatgtaactg ggcccgggga ggtgcccgtg aagggcagct gttatgcccc 360
caacctaccc acctccccgt gcaagatcct caagtgcaac tctgagttct ggagcgccac 420
gtcgggcagc cacgccccag cctcagacga ccccccgag ttctgtgcag ctttgcgcag 480
ctacgccctg tgcacgcggc ggacggccccg cacctgccgg ggtgacctgg cctaccactc 540
ggccgtccat ggcatagagg acctcatgag ccagcacaac tgctccaagg atggccccac 600
ctcgcagcca cgcctgcgca cgctcccacc ggccggagac agccaggagc gctcggacag 660
ccccgagatc tgccattacg agaagagctt tcacaagcac tcggccacc ccaactacac 720
gcactgtggc ctcttcgggg acccacacct caggactttc accgaccgct tccagacctg 780
caaggtgcag ggcgcctggc cgctcatcga caataattac ctgaacgtgc aggtcaccaa 840
cacgcctgtg ctgcccggct cagcggccac tgccaccagc aagtcacca tcatcttcaa 900
gaacttccag gagtgtgtgg accagaaggt gtaccaggct gagatggacg agctcccggc 960
cgcttctgtg gatggctcta agaacggtgg ggacaagcac ggggccaaca gcctgaagat 1020
cactgagaag gtgtcaggcc agcacgtgga gatccaggcc aagtacatcg gcaccacat 1080
cgtggtgcgc caggtgggcc gctacctgac ctttgccgtc cgcatgccag aggaagtggg 1140
caatgctgtg gaggactggg acagccaggg tctctacctc tgcctgcggg gctgccccct 1200

caaccagcag atcgacttcc aggccttcca caccaatgct gagggcaccg gtgcccgcag 1260
gctggcagcc gccagccctg caccacagc ccccgagacc ttcccatacg agacagccgt 1320
ggccaagtgc aaggagaagc tgccggtgga ggacctgtac taccaggcct gcgtcttcga 1380
cctccgcacc acgggcgacg tgaacttcac actggccgcc tactacgcgt tggaggatgt 1440
caagatgctc cactccaaca aagacaaact gcacctgtat gagaggactc gggacctgcc 1500
aggcagggcg gctgcggggc tgcccctggc cccccggccc ctcctgggcg ccctgggtccc 1560
gctcctggcc ctgctccctg tgttccgcta gacgcgtaga tgtggaggga ggcgcgggct 1620
ccgtcctctc ggcttcccca tgtgtgggt gggaccgccc acggggtgca gatctcctgg 1680
cgtgtccacc atggccccgc agaacgccag ggaccgcctg ctgccaaggg ctgaggcacg 1740
gaccctccc cttctagtgc acgtgacaag gttgtggtga ctggtgccgt gatgtttgac 1800
agtagagctg tgtgagaggg agagcagctc ccctcgcccc gccctgcag tgtgaatgtg 1860
tgaaacatcc cctcaggctg aagccccca cccccaccag agacacactg ggaaccgtca 1920
gagtcagctc cttccccctc gcaatgcaact gaaaggcccg gccgactgct gctcgccgat 1980
ccgtggggcc ccctgtgccc gccacacgca cgcacacact cttacacgag agcacactcg 2040
atccccctag gccagcgggg acaccccagc cacacaggga ggcatccttg gggcttggcc 2100
ccaggcaggg caaccccggg gcgctgcttg gcaccttagc agactgctgg aaccttttgg 2160
ccagtaggtc gtgcccgcct ggtgccttct ggctgtggc ctcctgccc atgttcacct 2220
ggctgctgtg ggtaccagt caggtcccgg ttttcaggca cctgctcagc tgcccgtctc 2280
tggcctgggc ccctgcccct tccacctgt gcttagaaag tcgaagtgtc tggttctaaa 2340
tgtctaaaca gagaagagat cttgacttc tgttcctctc tctcctgcag atgcaagagc 2400
tcctgggcag ggggtgcctg gccccagggt gtggcaggag acccagtgga tggggccagc 2460
tggcctgccc tgatcctctg cttcctctc acaaccccaa gagccccag cccggtccat 2520
ccacgtctgg agtctgggga gaggagcagg gtcttaggac tctcagctct gagcatccct 2580
ggcagggtct tcaacctcta atctcttccc ttaagccctg tggccacaca gccaggagag 2640
acttgccgct ggctcccgcc tcatttcagc ccagggtgct catccagggg cccagaacag 2700
tcccacctgt gctgctgtgc ccacagcaca aagccaggct tcaactccaa aagtgcagcc 2760
aggccctgga ggggtgatcct gccagcagcc ctacagctcc acaccctacc caccatcgg 2820
cagccccctc gctgttcccc agggacctct catacactgg ccaggaggct gcagaacgtg 2880
tgtctcccc tccctccaag aggtcctgct ccctctgcca gaaccgtgtg tgggcgggtg 2940

ggagggcgct cggggcccgg cccctccctc tccctgctgg ttttagttcg tccctatggt 3000
ggaagtaaaa agtgaagcac tttattttgg ttgtgtttgc tcacgttctg cttggaagtg 3060
gggacccctc actgcgtcca cgtgtctgcg acctgtgtgg agtgtcaccg cgtgtacata 3120
ctgtaaatta tttattaatg gctaaatgca agtaaagttt ggtttttttg tt 3172

<210> 815

<211> 2387

<212> DNA

<213> Homo sapiens

<400> 815

ttagggaaaa aaatggcatt aacttccaac aagaaactgc tgctcttcta ccgtatcccc 60
tttagaacat aaaatattaa gaaagggttt ctgaagcatt cacaggaaca gaaaactgaa 120
gcctgaagca cttactctg cagcaagata accccttaaa aatcatccag aatttggggg 180
atggaggtaa cccgtcaaca cccgcgacac ccctacccta aggtggggag caggattccg 240
tcaaccagaa aatgccactc tccgccccct ccgccatccg gaacgctgac cggcgcggag 300
tgcggggggcg gccgagggcg ggagcggcga ggagggcgga cgcgacacac gcaccacgcc 360
gagaactgct tcaccgcttt tttaaaggtt tttaaaatgc agtttctcca gccggagaat 420
tcccacccat tcaccagccc cagccctcac ccagctcccc acccccatcg ggggctccgc 480
tgggccgtgt ccccgaggcg gcctcggccc cacgccccga ggcgcgcggc ccccgggcgg 540
ggggtccccg acgcggccca gctggggatg cttcgcacct gtatgtagtt gttctcgcag 600
taatcgcca cccgttccag atttgtgtag ctgtcgaaga gggcccggcg gcccccggg 660
atttcctctt ccagcagcat ctgcagctcc gccatcttca catcctctc ctcctcctcc 720
tcatacaggt cgcagaggga gcggcggccg cagcgccaag gaaaccagg accgggagag 780
gaggagcggc ggcgacggcg gcggtaactc ggaaggagcg agaaacagcc ccagcgcgcg 840
acaggggagg gggcgacggg ggccggggcg gagccgacgg actccgagga cggtcaccgc 900
ggcgacggcc ggccggggcg gcgcacgcgc gtcctcttcc ctccgcccc gggagcccga 960
aaaagattcc caccctcgcc cgcgcgcgcg gccctcccc cacttcgggc gtctcctagc 1020

gacggcgggg gtaggggccg ggatgcgcgc gggagttggt ggtgcagtta acccttccgc 1080
cgcccgcccg ccgctggagc ggctggagaa gccccacct cccggcggcc tttgttagcc 1140
cggcgggaac acaccacct gctcagctgg ctctctgccg gctccctccg ggactcatct 1200
cggctccgtc cccatggagg tcctcggcct agggaaacttc tcgaggtttt tctccctctg 1260
ctgctgacgg gaggccgaag gagggcacag cctccactct tgggaccctc ctctgtgaaa 1320
gatcacacct caacaggga ggaataaaac ttccacgcag ctttcaatgc cacctgactt 1380
catttttctc agatttgacc tcctcctctt tgttgcagtg aattgcagtt tcctaacccc 1440
agctttcctg cgccctgcc tctttgact tccccactaa cgctgttctc ccctgccaga 1500
ttagccctt tctctctgg tttgcggtgc cgtgggcctc agctttttat gtttgccatt 1560
tctatgattc gcttctcac tcataacctt ttctgtcatt tctctaagtc tatcaacttc 1620
gctgtccttt ttcctattca tggattcagt atttaaaatt ttgaaaacga ttttgctagt 1680
agtaattgcc ttcttcacag ggctgttaca tagataaaat caacgtttat tgtgaaaata 1740
ccttgaaaaa acattaagtg ctacaaaaat tcaaggcaga taattttcct cttgcagagt 1800
tataattctg tttttattct ccagatactg tgtcttgttt tcctaaatca gactaccca 1860
cacaatgtaa tctggaaaaa ctaaaactcc tgaccattgc tgagatatga agccatgacc 1920
tttatttgtg ctgtggaaaa tcaaagttga ttccaggcag taccatctta gacttgtgta 1980
gttagaacia gatccattgt ttcaacactt ttcttaatct ggtgatctct tggccctcct 2040
acagtgaatt tttttcattc agatgatgag gaaacttata ctttcaaaaa aaaatcactt 2100
taggacgggc gcggtgggtc acgcctgtaa tcccagcact ttgggaggcc gaggcgggcg 2160
gatcacgagg tcaggagatc gagaccatcc tggctaacac agtgaaaacc cgtctctact 2220
aaaaatacaa ataaaaaat tagctgggca tgggtggcggg cgcctgtagt ccagctact 2280
cgggaagctg aggcagaaga atggcgtcat cctgggagaa gagcttgcag tgagcggaga 2340
tcgtgccact gcactccagc ctgggcgaca gagcgagact ccgtctc 2387

<210> 816

<211> 3013

<212> DNA

<213> Homo sapiens

<400> 816

gaatataggc agttggatac tagactttgg aatttaaaaa gaatgtctgg agttagaatt 60
gagagacttg aacgtggaga tggaggtcag gctgcagtgc gatgggatca tctatggagc 120
atatgaggag aagagaatct ggaggaggag gaggggggagc cagcagggga gcagctgtgg 180
gttggaggaa gccaggaggg agagtgcaat gccgagaaag caatgaagag cgtttcgaag 240
catgccagca gaaccaatg ctgcaaagag gcctgggaat gggattgctg agggcccttc 300
tcacagttag cccctcaaga gcagcgtcag gggattgtgg ggactgttgg cacacagctg 360
gctttgctag gttgaagaca atgggaggtg tgggaagactt gttgacgcat ttaaagaaga 420
ttggagggaa aggtaggatt gagagtgttt cagacagaaa aaggatcata tgctgagggt 480
aaagcacaag tacagagggt tgcagatagt gcagaagtct ttaaaaacaa ttattttaac 540
ccaacttcca gggagactga atttcttctg ccagtcagta acaccatcaa cctgggagtt 600
gcccctgacc cctccagtct tagctcctgc tcctgtaaca aaataccaca aactggttag 660
cttatagaga acagatgttt atttcttaca gttcaggagt ctggaagtcc aagatcatgg 720
tgccatcatg gccgagttct ggtgagggcc ctcttctggg atgcagcggc cagctcctca 780
tgctctcaca gtgggtggag ggtaagcttg ctctctggcc tcctcttaaa aaggcactaa 840
tcccattcat gagggtcca cttcatgac ctaattacct cccaaagatg ccatctccaa 900
acaccatcat tctggggatt ccatttcaac atgatttggg ggatacatca gaccataaca 960
cttttctttt tctcaacctt cacatccagt tggttctcaa gccctggcga ttttacgcgc 1020
tagataggtc ttaagttcat ctctacgcct gccctgggta aggttctcat catttctcct 1080
ctggattcat ctgcaacaca ggctgctggg ttggttccca cctcctagag ctggaagagt 1140
gggctctctg attctttaca ccccgccctc aatcctcctg ctgcctgaat aaccatctcc 1200
ccgtgaccta ggatatatcc cagcccccta gaggcattgca aagccttcca tgtctgacct 1260
tgccatcatg cttggaagcc ctagactgct gctgtaccct gaaggaggta cctgctcaca 1320
ttggcccctc tgtctggaat aacccacccc cggttccacc caattcagga aagcttccca 1380
accctccct cccaccaccc caaagctaag tgaagtgacc cctcttcttg cctctgtaac 1440
accgccatgc acatttcata cagcccttgc tgaaacttca tctagttctc tgttagactt 1500
aacattccct aagggcaggt ttggaacctt actcatcttt atatggcgctc taaaatagtg 1560
cttgctttat gatagggtgct cagtaaaggt tgtcttgaat tgagcagatc ctctagggac 1620

aggagttagga tggagagcag actgtaaagc ctcagtaggg caggggccct gcctcttct 1680
gagctcagga taccagagc ctagctcagt gcctgccatg aaattgttca ctccatcaag 1740
ccttggttaa tgagttcggg gcggggggag catgatggtt ttctctctct cagaaagaaa 1800
gcgctgtatc aaagccctag caccctctct acaccacct tcagtatttc atattagatg 1860
cggcccaagt gatactttct ttaccgtccc gtgaagacag catattggca gccctgcaaa 1920
aacaaaacaa aacaaaacc tcagttcatg gcatacttgc tataaatcag ctatgtgtat 1980
tgtcaaattg tagaactgaa agtatattct gattcggtgt gtgtataagg aaatatacac 2040
cagtatatgc attaaaacgt caagaagagc tgggcacagt gtcacatgcc tgtaaaccba 2100
gctattcagg aggctgaggt gggaggatcg gttgaggcca ggagtttgag gctgcagtga 2160
gctatgattg cacagctgca ctccagcctg tgctgagacc tcattcttta aaaaataaaa 2220
aataaaaagt ctaagaggat acacagaaat ttttaagtgg ttacctccac ggaatgggat 2280
taggggatca gaggtgaggg aactcatggt ttggctatct ctcgttcttt ctgcactgtt 2340
tcaaattttt acaagtgtat gttattgtac ttttaaaaag attagcttgg caacaagtct 2400
agcctgaaat ggggtgctatt ttgactagtc tgagtgaaaa gtgaggattt aaatgaagta 2460
accctaaac tcagccagtc ccatgttttt ttaacacttg gaatatctaa ttccatttac 2520
actgcattct tcaaagttaa ttttcaaaga tgccctttgc ctcattccct gcttttaagt 2580
attattatag acttttggag actcacgaaa caagcaatcc cttaaattct gccagggaaa 2640
gtatcttggg ttaaattggt tttgagaacc ttgagagtgt atattctatg aaatggaaga 2700
aacaagaact agacagagtc acaaatgctg ttgatcacag acaatctctg ccatccataa 2760
ggtaaagtga atacatctgg cgacctgctg agtgtgaact tgcagcaggt gaggaaggaa 2820
ctctgaactc tcacaatctt gtttcttcat ttcccagaga gaaactcggc aaagagaaaa 2880
aggacatttc cctccagggt atctgaaaga atttcaatgc ttacctttaa tcatgtgaca 2940
ttgtttatct tggattaaaa gaaaagaaaa tgtatttatt ttgtgcatat tttcaataaa 3000
atatataaaa tcg 3013

<210> 817

<211> 3079

<212> DNA

<213> Homo sapiens

<400> 817

cgctcttccg aagtgtctgg gtgggtgcct ctgtctctcc tctctcttcc caagtgtgct	60
gcccacagca ttttaccagc tggctctttc cagccagagt gacctaggaa ggcggctggg	120
cgtgggtactg ggggtccagct tgtcacaccc agccctgcaa ccgtggggac agtgcacgt	180
ggctcacacc cccacccccg tgttccagag ctgcctggat tgacaagtgc cgccccaacc	240
tgctcatcac agagtccacg tacgccacga ccatccgtga ctccaagcgc tgccgggagc	300
gagacttctt gaagaaagtc cacgagaccg tggagcgtgg tgggaaggta gctgcagcag	360
gggtggggac atgggccctc ggccatgctg ggctgggtctt tctggcaggc ttggctgccc	420
ttggcatggg tcagggtctc aggggtggggg gtactgcatt ttcaggcagg gagggaagaa	480
gatttgctca acattgagga ggaaaactca gagacccttt cctagggagc cccttttccc	540
tcctacctca ggtgcggacg aagccctggc caggctcctt ctgtctctca tgcagctccc	600
ttctgtctct catgcggctc cctcctgtct ctcatagcgc tcccttctgt ctctggagag	660
cggctgggac gggactggga gcagatgaga ggctaaggtc cctatgaggc cgcagctctt	720
gggcacctgg ccgtgccctc actggacgct gcctgtctgt tcgagggggc atgtgcccag	780
ggctcctgcc ttgtgtcccc ctacaggtgt gatacctgtg ttcgcgctgg gccgcgcca	840
ggagctctgc atcctcctgg agaccttctg gtaggtgccg ccaggacggc tctttaagga	900
gcccctggcc cggcctgaac acagtccagt tgggtgggcag ccctgtccag cgtagcgggtg	960
gcatcttggc cctgcttgct gctgtcctgg ggggccgctc gtgtgctgtg tgaccccagg	1020
aagcctgtga catcccgta gcgccaccgt gtgcggctct ttaggggtt cctggttctc	1080
cgctgagccc ggctgctgca gggcttaatg ggacaagtgg tcgcgactgg actcaacctg	1140
gcccgtgcgt gggctgtgca gacacgggtg ttgggggtga cccggccgag tcctgccctg	1200
cagcattctc ccctgtggcc actgtgtgta ctgggccggt ggtccccagg gagcgcatga	1260
acctgaaggt gccatctac ttctccacgg ggctgaccga gaaggccaac cactactaca	1320
agctgttcat cccctggacc aaccagaaga tccgaagac ttttgtgcag aggaacatgt	1380
ttgagttcaa gcacatcaag gccttcgacc gggcttttgc tgacaacca ggaccgatgg	1440
ttgtgtttgc cacgccagga atgctgcacg ctgggcagtc cctgcagatc ttccggaaat	1500
gggccggaaa cgaaaagaac atggtgaggg catggtgagg tgtgggaatc tggaagctgg	1560

aggccgacgg gttgtccttc caccatgct gcctctgagc tctcactggc ttggcctcgt 1620
gctggccaag ggacgtggct gctgctgctg gggaacgggg gcgatgtccg cctggagctg 1680
ctcagtctct gtgacacagc ttgtccacct cgggcagaac agccccagcc cagccctgga 1740
cagtcttgtg ccaaaacctg agccctttgg agtctgcagc taggcttggt cgggcgccgc 1800
tggcaggtgg aaacagcttc caggggttca ggccgggggca tcccgggcaa ggccttgagg 1860
tgccaaggct ggagttccct ggctgtgagc tctgtgcctg ccccaggtc atcatgcccg 1920
gctactgcgt gcagggcacc gtcggccaca agatcctcag cgggcagcgg aagctcgaga 1980
tggaggggcg gcaggtgctg gaggtcaaga tgcaggtgga gtacatgtca ttcagcgcac 2040
acgcggacgc caagggcatac atgcagctgg tgggccaggc agagccggag agcgtgctgc 2100
tgggtgcatgg cgaggccaag aagatggagt tcctgaagca gaagatcgag caggagctcc 2160
gtaggcagcc gggcggggcg cgtggggccc acctcgggtc agcacgggca gcctgggctg 2220
aggctctctc ttccccggg gtccaggggt caactgctac atgccggcca atggcgagac 2280
ggtgacgtg cccacaagcc ccagcatccc cgtaggcatac tcgctggggc tgctgaagcg 2340
ggagatggcg caggggctgc tccctgaggc caagaagcct cggctcctgc acggcacct 2400
gatcatgaag gacagcgtga gtgccaggac ggtctctgga ggggggaggg ccgctgctgc 2460
gctcactgac ctgtccctgc cccacagaac ttccggctgg tgtcctcaga gcaagccctc 2520
aaagagctgg gtctggctga gcaccagctg cgcttcacct gccgcgtgca cctgcatgac 2580
acacgcaagg agcaggagac ggcattgcgc gtctacagcc acctcaagag cgtcctgaag 2640
gaccactgtg tgcagcacct cccggacggc tctgtgactg tggagtccgt cctcctccag 2700
gccgccgccc cttctgagga cccaggcacc aaggtgctgc tggctcctg gacctaccag 2760
gacgaggagc tggggagctt cctcacatct ctgctgaaga agggcctccc ccaggcccc 2820
agctgaggcc ggcaactcac ccagccgcca cctctgccct ctcccagctg gacagacct 2880
gggcctgcac ttcaggactg tgggtgccct ggggtgaacag accctgcagg tcccatccct 2940
ggggacagag gccttgtgtc acctgcctgc ccaggcagct gtttgcagct gaagaaacaa 3000
actggtctcc aggctgtctt gcctttattc ctggttaggg caggtggtcc tagacagcag 3060
ttccagtaa aagctgaac 3079

<211> 2460

<212> DNA

<213> Homo sapiens

<400> 818

```
agacacttta ccagatgcac aacgctgagc attacagcag tgtgtatgct tcattcttct 60
gcagtatgga ctcatgggca agtagtcttg atgaaggaga tacaacttcc cttttgaaac 120
tccagcgata caactcctat gatattagca gagacaccct gtatgtttca aaaagtatat 180
gcttgatcac accgttacca ttcatgcagg cctgcaagaa attccttate cagctttaca 240
aggctgttac ctacagcag ccaccacct tgccacttga aagctatate cacaatattc 300
tttatgaagt accccttcca cctccaggga ggtcactgaa attttatggg gtttatgaac 360
ctgtcatctg ccagaggcct gggcccagtg aactccccct ctctgattac ccccttcggg 420
aggcatttga gctcctggga ttagagaacc tgggtgcagg gtttacctgt gttcttttag 480
agatgcaaat ctttctctac tcacaagatt atcaacgcct gatgactgtg gcagaaggca 540
tcaccacact ttgtttccca ttcaatggc aacatgttta tgtgcccatt ctacctgctt 600
ctctgttaca ttttcttgat gctcctgtcc cttatctgat gggccttcag tcaaaagaag 660
gaactgaccg ttctaaacta gaacttctc aaggggctaa tttgtgtttt gtggacattg 720
acaaccattt tattgagttg cctgaagaat ttccacagtt cccaataaa gtggatttta 780
tccaagaact ctctgaggtt cttgttcaat ttgggatccc tcctgagggc agcctgcatt 840
gcagtgagag taccagcaaa ctgaagaata tggttctgaa agacttggtc aatgacaaaa 900
agaacggcaa tgtctgtact aataacatca gcatgtatga gttactgtaa gtcctcatct 960
tctggtaggt cctgtaactc taattaggca tttgtacatt tttagcagca aaattgcctc 1020
agcagagctc ccagttttat tcccagttgt ggctgaaaag caaagccatg gcatcagtat 1080
ccttgtgcaa tcggaggttg ctgggctttc accacctgtg ttgttaacct tatttcctgg 1140
aggaagaaac agatgaaaca agtgcctaac tccctttatc aaacacagcc aaggacagcc 1200
tcttttaaca tgtgacttca tacttgagga aaaggagagt tgacagctgt atttaaaaac 1260
ccatggagcc ggggtgcggtg gctcacgcct atgatcccag cactttggga ggccgaggca 1320
ggcggatcac aaggtcagga gattgagacc ctctgggcta acaccgtgaa acccgtctc 1380
tactaaaaat acaaaaaatt agccgggcgt ggtggcgggt gcctgtacag gaggctgagg 1440
```

caggagaatg gcgtaaccc gcgaggcgga gcttgcagta agctgagatc gcgccactgc 1500
cctccagcct gggcaacaga gcaagactcc atctcaaaaa ataaatagat aaaaataaaa 1560
acccatggaa atggtttaag aaaatggttc tgggtacacc agaaatttgt ttgcctgaag 1620
ctaaagtgtg tctacaatgg tacagctctt ccaggacat gggaagtta tcgtgggaga 1680
tatccagaac ctgttttaca ctgggctcct actgtgtttg gtgatcagaa actatagagg 1740
ggccaaccc aggatttcat gtttgtatct tcataaggcc atgctcctga caggtctagg 1800
caacctgggg gatgacttag gttagtgtgc taggattgac acacctcatc cagccttctt 1860
actttgtgga tgggaacact taaggaatag agagactaaa tcttacctt accccacagc 1920
tggttactga caacacaagc tctagaattc atgtttgttt gtttgtttta tttcaccagg 1980
ctgcatgaga ctgaccttcc ggcattctta caaatagtct ttctattata ctattggatc 2040
tttattcatc cacctataca agtaggaaat aaggatgaat attcatttag aagaattaat 2100
attcatatta acacattact ctcagattat tgggaattaa catcttgtaa aaactgggag 2160
caggccaggt acggtggcta acgcctgtaa tcctgacact ttgggagtct gaggcgggtg 2220
gttcatctga ggtcagtcag gagttcaaga ccagactggc caacatgggtg aaaccccgtc 2280
tctactaaaa aaaaaaata gacaaaaatt agcggggggg tggcggcagg gcctgtaatt 2340
ccagctactc aggaggctga agcaggagaa tcgtttaaac acaggagggtg gaggttgcag 2400
tgagccgaga ttgtgccact gcactccaac ctgggtgaca agagcgagac tccgtctact 2460

<210> 819

<211> 3122

<212> DNA

<213> Homo sapiens

<400> 819

ctttgaacca tgggagaaga tggtctgggg tcaacttcaa gacagggtg gcagtactgg 60
gacacttggc tgagaaacag ggggcctgcc caggtaaaga gcttcccc atggacgtaa 120
atggagggtc acagctgagc ttcaggaagg gaaggaaagg aaaagaagga gcaaggagta 180
tgggggcaca ctttctctc atactgggat tccagctcac atcccagtcc ttcccagtga 240

gcagtcatga gaacctcacc ctgagaaagg aggcagcgat ggggcttttc tctaggtgcc 300
ctagctctcc ctctccactg aagttggaga ctagacactg gtggtggagg ggcagaaact 360
taggccccag gtcctatgag cagatccctc tacaggtacc tggggctcag atggtataag 420
acaggaagga gggagcctgg gtagggtcag gtggtggctc cccacaatta gaaaacatgg 480
cttttctgca tgcatttctt tggatgggtg aggtggctc ctgccctgta ttcttgcttg 540
accaataatc acaggctttg attcttgtga aagaacaaga aagtcaggag acatctggaa 600
caaaggcagc agcaggaaga gcaacacaga tgcaatatag tgtcaggtat agcccggctt 660
actgtcccca actaggcagc aagatcaatc agcctccctc acagaaacca gcagaatggg 720
gcatttgtat tttgatgatt tttttattgt attgagaaca cttcacttga gatctcctcc 780
cttaacaagt ttttaagtgt acaataagct attgttaact acaacaatgt acaacaacat 840
tgtacagcag atttctagaa tgtattcacc ttgcatgact gaaactgtgt acctattgaa 900
taacaactct ccactcctcc ctctctccag tccctggcaa ccaccattcc actctctgct 960
tctgggagtt tgactatttt agatactcca tataagtga atccagcaat cctactcctg 1020
ggtattcatc caaaagaatt aaaatcaggt tctcagacat gcatttccat gttgattgca 1080
ttatccacaa cagccaagat gtggaggcaa ccttgggtgt cattaacgaa ggagcggtta 1140
aagaaaagtga gaataacat gtaacggagt agaattcagc cttagcaaag aaggaaatcc 1200
tgccatatgc aacaacatgg gaagtggtag gggctttcac tagaggtagg ggtggagaag 1260
gaagcttctt agggtagttt aaggaggtag gaagcaacat cacagtttg ccacatctcc 1320
ttcctgtagg aaatacaaaa tccaaagaga cacaaagaga agagagaaag aaaatatagc 1380
aaacattcta atgccatctt tgctactgga cttgtacacg ttttactgcc atttctcatt 1440
tcaccctcag aataacctct gaagagggtct ttgtagttcc cattttacag acaagggtctc 1500
tgggctggta gaaggcctgg gtaggatggg tattcatgag ctgagaagga gaatctcaga 1560
ccaccacagt ggggtgctctc aggaccattc caaggctttc tggctaagag tccaggggaa 1620
catcacctgg ggctagggaa gagcttttgg aaccaagagc tccaaaggct gggattgccc 1680
aagaggacaa gggggagggg catgttgggc accttgtagt gtggtgattc cagaggcatg 1740
caccctggct tgccaaatgt ctgagagggc ttgggctcca caggccctct gctatggaga 1800
gcttttctca gccctttcca cctactacat gattctagga atcttcttct gtggaaggag 1860
gagctttggg aatctgctgg gctgcagagg tagtcccat ccagctctat gccactagt 1920
acagctccag agttttgctc tcaccaacac ccacatgctt ctgctctgta aagatatcat 1980

atttacatat tgaccttctt gccctccta ctgtatgaac cacactcaca aatgcacaca 2040
cgaaggcttt gagcagcatt gaaattgata aagcctgagt atcatagaac aagtgtccta 2100
tctgctagag tttggctgta ccttgacctc agatatctgc cattcagaat ggaatgccca 2160
gctctgggca ggcactggat cagaacaacc ataagcttag gcatctgctt ctccctcttt 2220
ctccacctcc atgtcaaggg caccacctca ctacaaactg ggcctggggg ggtggtataa 2280
ggcatggggc agggaaactgg gaagctccct ccaccccatc tgatttcaga cctgcctcct 2340
cagtgcccc a tgtgtgacct agctatatatt agcaagctca attcagtaac tagagcaact 2400
ggtctagcgc cctcccttcc caaggactct gaaggggcca gtttctcaca ctttttaatc 2460
atcttccatt tctccaggca accaacacaa aaggcctgga ccaggtggtg gagatgctgg 2520
ggctcctaca cagaggctct attttctgtt tgcagtcttc caggccagat aagaaaactg 2580
agacacagaa aagtcacaca agattatcga ggtcaacaca gagaacagtg gaacctgcac 2640
ctgacccag gcaggcggaa cttcatgac cacagcacac caccacaggg aacaggcagg 2700
gaaaacaatg ggtctagcag gacaaaagt acatttccca gagtttcttg ctgtttggat 2760
ctggctgcag tttcagtttt gccagaaga ggcatttcca tgagctctgg acagtggcag 2820
agaggcagag gtgctccact gcagtgtgct ggatggtccg cgggctcctg ccaatgtgag 2880
gatttgcagc aactggtata tccatggtct tgtcaccagc ttcctgaatt cggggcagct 2940
ggagccacac tagtggctct tcttgcagg ggcagcagct gtctcctggt ctcagaatca 3000
cagctgtggg gatgcaacct taagccaaaa gcctagcggg gggtggtcct aaacttcttt 3060
tgtctaggcc ctctgatccc tctgtaagtc gctatttccc ttattaaatc tctttctgct 3120
gg 3122

<210> 820

<211> 2290

<212> DNA

<213> Homo sapiens

<400> 820

ctgaaaaggt tgttcacctg tgtggatacc aggatatcag gtgggacatt caaatgttat 60

gaggacatgg gaaagttttt tctttttctt cttgttgttt tgtagagacg ggctctcact 120
atgttgccca ggctggcttc aaactcctga gctcaagcaa tcctaccacc ttggcctccc 180
aaagtgctgg aattacagac acaagccacc gcacgcagcc atgggatggg ttttttaaaa 240
attaatttta gtgtgggata gtttttgatt gcacaggatt gtcctgagta tgtagcgtcc 300
ctggccccct cccacaacct tcacttgcta ggttctagtc attgtgacaa ctaaaattgc 360
ctctgatttg taaagcacct cagcaggggc ggtgctgccc catggagaat cactggctctg 420
gtgcagttca ccggccctgt acctagtggt cagcagtggt ctttgccctag tgcttactgt 480
gtgtctagtc ctgggctgtt taccgatgat gtagctcatt tttatcctca caatagctaa 540
gtgctgttgc tgttatgtag ttgcagttga ggaaactgag gcttaaagaa gagaagttac 600
ttggccacag tcatacagga gaatcgggtg agtccagggt gggtttcaag tctctatcac 660
tccacacccc ctgtcctggc tgtaggttc tgccagtcctc tggggctcag agagaagcga 720
ctgagggaac aggagccctt gctaagtcac gtgagggaga atgtgggtggc agagtcccag 780
ccagcaagga gaagtagccc tgagacatgc tgcttttgtt ttgtaacctc ttctgtgaag 840
cactggtgga ctgaagtcag aatgggagcc ctcaggaatc tccttcctgg gccctggggc 900
ttgtgcaccc aggggtggatg ggtaaggggc tctactgggc ttgttgggga gctgtgcccc 960
tgcccagctg ggtgcacat gggtggaggg cttgtggatg ggtagcccta gctggcatcc 1020
tgagggcctg ccgcctgcca tctgccctgc agccctcacc tgcgcctctg ttttttaag 1080
gggtgctcct cctaggggag ccggtccgct gggagaccag cctgcagctg atcatggatg 1140
tcctcctcag caatgggagc cctggggctg gcctggcaac accccctac cccacctcc 1200
ccgtcctagc cagcaacatg gatctcctgt ggatggctga agccaagatg cccaggtttg 1260
gacatggcac ctttctgctg tgccctggaaa ccatctacca gaaagtacg ggcaaggagc 1320
tgagatacga gggcctgatg ggcaaaccac gcacccctac ttaccagtat gccgaggacc 1380
tgatcaggcg acaggcggag aggcggggct gggccgcccc catccggaag ctctatgctg 1440
tgggtgataa ccctatgtct gacgtatacg gcgccaacct gttccaccag tacctgcaga 1500
aggcaacgca tgatggggcg ccagaactag gggccggggg cacacggcag caacagccct 1560
cagcaagcca gagctgcac tcacatcctgg tgtgtacagg cgtctacaat cccaggaacc 1620
cacagtccac ggagcctgtc cttggaggag gggagcctcc attccacggg caccgagact 1680
tatgcttcag tccagggtc atggaggcct cccacgtggg gaatgacgtg aatgaggctg 1740
tgcagctggg cttccgcaag gagggctggg ctttggagtg agggcagtg ggtggaggtg 1800

agggggtgag cctggacctg tgggcgagtc ccattggctg ggctctggcc tgatcactgg 1860
 gctcagggtca gggcttggtt cccttgccac ccttcttgct gcccctatgag tgtggcatta 1920
 ctggtcactt ggaagaagac agtgactctt tttccctgct gggtagcatt ttgtatggaa 1980
 cggttggaat tttctgggcc cagttccac gtgcctttcg tggcagtcta acctcaggcc 2040
 attctcttcc cctgtgtgcc tcagtgtcct tctcatttca gtagggactt ctgaaatggg 2100
 ggaggcagtg tgaataactg tggatgtctg tgcagagcct ttgccggcac tgaaggcatg 2160
 cagcctgtcg gcagagtgtc ttaacaccag atgctacttt ttactgtatt gtagtttatt 2220
 gcccggagat gtggggcctt ttttttaaat aaaataatca taataaatgt tcatgatgct 2280
 gactcttggtg 2290

<210> 821

<211> 2275

<212> DNA

<213> Homo sapiens

<400> 821

atcacaggca cgcttcactg agtcagatac catccctgaa gggatttttc tttataatta 60
 gaacgtagtt gatggaattc tattttcctt ttgactttta ctttaattatt ggcttctgat 120
 ctagcaccag tgaatattta ttaataagaa gaaaggaaat ttacctgaaa attgtcagtt 180
 actctgagct cttattaatt atgcattctc agggtaaatt tcttgttttc ttcagtggct 240
 tcaaactggc agccttggtg tcttgcttac atatgtgtgt gtgtctgttt ttgttttcgt 300
 tctgttcttt tagcttctta gtatggaggt tttcaaatac caataaatgt agagagaaca 360
 ttgccatgaa ttctatgtac tcatcaccgc acttcagcaa tcatcagctc tatgctaatac 420
 ttgtttcatc tatcacctcc cttcccttgt tttgtgggag ttttttaaag caaaatccaa 480
 acatcataac atttcatctg ggagttcctc aacattttcc tctaacagat gaggattttta 540
 aaatgtaaca atattattat cacatccaac aaaattagca attctttgtc atctaacctt 600
 cagtctgatt gtctcaaaca ggcattttgt ttgtttgttt gtttttatag tttgttttag 660
 tttggatcta gacattggtc tacgcattac atttaaaatg gttatgtttc tttcggtatt 720

ttaaaaacct gtaagtttcc tcttcatttt ttacaaatit atatttggga atattttcag 780
atttatagaa aagttgtaaa ataatacagt cccatcattca gtctccctta atgataacat 840
cttacatcac catgtcatat tacgaaatta acattgggtgc atgactaact aaactacaga 900
ctttattcag atttcaactgt tttttctact aatgttctgg gttttttttt gacggaggct 960
ggctctgtag cccaggctgg agtgcagtgg tgtgatctcg gctcactgca acctccgcct 1020
cccaggatca ggcggttccc ctgcctcagc ctacctagta gctgggacta cagggtgcacg 1080
ccgccacgac cagctaattt ttgtattttt ttggtagaga cggggtttct ccatgttggc 1140
cgggctgac ttgagctcca gacctcaagt gatgcaccca cctgggcctc tcaaagtact 1200
gggattacag gtgtgaacca ccacgcccgg ccctttgcta atgtcctttt actatccgc 1260
gatccaacat tatatttatt catcctgttt ccatagtgc caacaatcca tgacaatttc 1320
ccagtcgttt ccttcatttt accatcttga cggttttgaa aagcactggg cagatatttt 1380
tgtagaatcc tctacaaatt gggtttatct tgtttttttc atgattagac tgaggttatg 1440
ggtttgggga aagaatgcca cagaggtgaa gtatgttcac gtcacatcat taggggttac 1500
gtatcaacat gagttgtcac tggcagtatt aacctggatc acatggttaa ggtagtctct 1560
gccaggttgc tgcattttaa agttactatg tttccttgta ttcttctgaa gcagatcatg 1620
aagtccagcc cacattcaaa atgatgagaa ttaagctcta cctcctgggt gagggagtat 1680
ctacatttgg aatttttata taaggaagat ttatctccac tcatttcttc agttattcaa 1740
ttctttgtgt cactatagac ctaagtatat tgattttata ttttagatta tagtctgatg 1800
acttaaattg cctaaattgt ttcagcttta gccactgggt ctctttcagg tttacctttt 1860
tttatttcag attggcctct tttttgttct cagcactttc tgacagtata aaatgctctg 1920
tgctcatctt gtattaatat tttcccttcc ctagccctag aatcaggaat ttcttcaata 1980
gaaaaatggg attaaccagc cggcacgggtg gctcacacct gtgatcccag tactttggga 2040
ggccgagggt ggcaaatcat gaggtcagga gttcgagacc agcctgacca acatggtgaa 2100
accccgcttc tcccaaaaat acaaagattg gctgggtgtg gtggcgtgtg cctgtcgtcc 2160
cggctactca ggaggctgag gcgggagaat cgcttgaact gggaggcggg ggttgcagtg 2220
agccgagatt gcccactgc attccagcct ggacaacaga acgagactcc atctc 2275

<211> 3237

<212> DNA

<213> Homo sapiens

<400> 822

```
ctgtgctgtg cgctcctctc ccggggacca ccgtcctcag atctccccag ggaatgggtc 60
gtcctcttcc tgccccacc cgcgagacgc ggcagaaaag cccgcggcta tcttcccgcc 120
agcaacagcc tcccgccgag ccggccggga cagaggcggc cccaccccc actgggcagg 180
ggactgcaga cggcgctccc cgactctcaa gacgaccagg gagcttcctt tttcctcagc 240
ggggtgaggg gcatctgtcg cccgccgact tggagggtga ggggcaggga cattccctcg 300
ccatcacctc aggagctaga acgcgccctt ctcgcagcag ggcgtgggcc tccaatccc 360
tccaaggggc ggacggcgtg cgcaaccccc tggagaagca acaggcgccc ccatccccct 420
ccaagccggg taacgccgac cccctcgtcc ctcccgctct tcacctccgg aagccgggcc 480
aaagcctggg cgaacgactg cgcctcactc cgccccctgc gccattttat cgccccctcc 540
ccgacctccc ctaccccgag tcagccgggc caacaccagg gggaggggcaa accagcagtg 600
attggcagga aaccgtcccg cctctaggag ggttgtgccc cgctcaggcg cctcagcccc 660
gccctccgca ccgcccaccg tgcccactgg ctccaccttt tcccgtctca tcgacctgt 720
cgactctctg ctgctcctca ctttttccgg ccgctgccgg aggggtccag gccagtaag 780
cggagcgccg agcccagctg atgcaacctg gctggactcg cgtgacagtt cccggcacgc 840
ggcggcgacg gtgaccaggg aaggggctct ggtgccgggc tgagcggggg aagcaggggt 900
agcggagcca tgggggacgc tcccagccct gaagagaaac tgcaccttat caccgggaac 960
ctgcaggagg ttctggggga agagaagctg aaggagatac tgaaggagcg ggaacttaaa 1020
atttactggg gaacggcaac cacgggcaaa ccacatgtgg cttactttgt gccatgtca 1080
aagattgcag acttcttaaa ggcagggtgt gaggttaaaa ttctgtttgc ggacctccac 1140
gcatacctgg ataacatgaa agccccatgg gaacttctag aactccgagt cagttactat 1200
gagaatgtga tcaaagcaat gctggagagc attgggtgtc cttggagaa gctcaagttc 1260
atcaaaggca ctgattacca gctcagcaaa gactacacac tagatgtgta cagactctcc 1320
tccgtggta cacagcacga ttccaagaag gctggagctg aggtggtaaa gcaggtggag 1380
caccctttgc tgagtggcct cttatacccc ggactgcagg ctttgatga agagtattta 1440
```

aaagtagatg cccaatttgg aggcattgat cagagaaaga ttttcacctt tgcagagaag 1500
tacctccctg cacttggcta ttcaaaacgg gtccatctga tgaatcctat ggttccagga 1560
ttaacaggca gcaaaatgag ctcttcagaa gaggagtcca agattgatct ccttgatcgg 1620
aaggaggatg tgaagaaaaa actgaagaag gccttctgtg agccaggaaa tgtggagaac 1680
aatgggggtt tgtccttcat caagcatgtc ctttttcccc ttaagtccga gtttgtgatc 1740
ctacgagatg agaaatgggg tggaacaaaa acctacacag cttacgtgga cctggaaaag 1800
gactttgctg ctgaggttgt acatcctgga gacctgaaga attctgttga agtcgcactg 1860
aacaagttgc tggatccaat ccgggaaaaa ttttaataccc ctgccctgaa aaaactggcc 1920
agcgtgcct acccagatcc ctcaaagcag aagccaatgg ccaaaggccc tgccaagaat 1980
tcagaaccag aggaggtcat cccatcccgg ctggatatcc gtgtggggaa aatcattact 2040
gtggagaagc acccagatgc agacagcctg tatgtagaga agattgacgt gggggaagct 2100
gaaccacgga ctgtggtgag cggcctggta cagtctgtgc ccaaggagga actgcaggac 2160
aggctggtag tgggtgctgtg caacctgaaa cccagaaga tgagaggagt cgagtcccaa 2220
ggcatgcttc tgtgtgcttc tatagaaggg ataaaccgcc aggttgaacc tctggaccct 2280
ccggcaggct ctgctcctgg tgagcacgtg tttgtgaagg gctatgaaaa gggccaacca 2340
gatgaggagc tcaagcccaa gaagaaagtc ttcgagaagt tgcaggctga cttcaaaatt 2400
tctgaggagt gcatcgaca gtggaagcaa accaacttca tgaccaagct gggctccatt 2460
tcctgtaaat cgctgaaagg ggggaacatt agctagccag cccagcatct tcccccttc 2520
ttccaccact gagtcactg ctgtctcttc agtctgctcc atccatcacc catttaccca 2580
tctctcagga cacggaagca gcgggtttgg actctttatt cgggtgcagaa ctcggaagg 2640
ggcagcttac cctccccaga acccaggatc atcctgtctg gctgcagtga gagaccaacc 2700
cctaacaagg gctgggccac agcaggaggt ccagccctac cttcttcctt tggcagctgg 2760
agaaatctgg tttcaatata actcatttaa aaatttatgc cacagtcctt ataattggaa 2820
aaatactggt gccaggttt tcttggagtt atccaagcag ctgcgcccct agctgggatc 2880
tggtacctgg actaggctaa ttacagcttc tccccaacag gaaactgtgg gatttgaaaa 2940
ggaaaggga gggaaaacag agagcctagt ggtctaccaa gtggttgga actttcccaa 3000
tgtctgctta ctctgaggct tggcactggg ggccagggcc tgccccaggg ctcttggaat 3060
ttcccttgat ccagctaggc tgggacactc cctaaatcag ctgcgtgttg ttagcatcag 3120
gcagaatgaa tggcagagag tgattctgtc ttcatagagg gtgggttact tctccataag 3180

gcattctcagt caaatcccca tcaactgtcat aaattcaaat aaaatgtctg aacaagg 3237

<210> 823

<211> 2269

<212> DNA

<213> Homo sapiens

<400> 823

ttaacaccta tagttctctc aggccttttt tgaaaagtgc cttcgtttct atttctattc 60
cactctattt agctattatt gtgcggcacc cccaatgggt cctttcctct cagcatcgct 120
gtagcttgcc tgtaccagg acatgccctt gactggcaca aaccgtgaca gacatgccct 180
tgactggcac aaacatgac agacaaggcc acctcctcag aagcggaca acctattatc 240
ttttggcaat gggagctaac ttcactgttt tcttacaata cctggttttt cctatctttg 300
gtttcctttt gattatctct catccatctc agccactatt ctctccct cccttgtgtc 360
tacaacaccc cattttacca agtctcccat ttaacctccc catccttttc tttcccttaa 420
agtctcatat gatactgcag tctcatttg tcttcccaa aaaaaaaag aatttttttt 480
tttttaagga acccttcctt gactcctaaa gactcctaag gatgctgagg cctcctcagc 540
atgatttcca tatacttact ttctctgttg gactgcagac aacttgaaag caggaacttt 600
ggcagtgttt cccagcacc agcatcatgc ctgggtccata gtagctacca ataaaaaagt 660
aagcatcatg aacccaaaag tatctgagaa aggtctcaat taatttaaaa agttttttatt 720
ttgctaaggt taaggacaca catgaccac cctcagaagg tccggaggac atgtgcccaa 780
agtggttaag gcacagcttg gttttataca ttttagggag atataagaca tcaatcaaca 840
tatgtaagat gtacattggg tgggtctgga aaggcaggat aactcaaagt gggggcttcc 900
aggcatagg taaataagag acaaaagatt gcattctttt ggggttttga tcagcctttt 960
actaaataca caatttacat gtgagaagga ggtagctcag gtgaacagag ggatgacttt 1020
gagttctgtg taccctttgt cccacacttg tgaagatcag caccattgtg atgcatggag 1080
gggtgtttct cattttaag acgtatttga gcatgtcttt ggcagctcac tctgccagat 1140
aagggtgcct ctttccatga atgacagaag atgggtaact ctgttctgcc attgccccaa 1200

gcggttttca caatctgccc ttctccctc tgccccccac cactagtaaa aaccccaaac 1260
 caagttgcta ggttcaccag atctaggtga tactcaccaa catacagcta ggctttcatt 1320
 cctcaggaaa attgcaattt tgtggtctta taatgatata tattggtttc catccatggt 1380
 tgcgggctcc tgatgtcaga ggtgtttgaa ccaaagcaac tccatcttga atagaggctg 1440
 ggtaacataa ggctgagacc tactgggctg cattctcagg aggttaggca ttcttagtca 1500
 caggatgaga taggttggca caagatgtca caaagaccct gctgataaaa gaggttgtgg 1560
 taaagaagcc aaacaaaacc caccaaaacc aagatgggtga cgaaagtac ctctgggtcat 1620
 cctcacgctt attatatgct aattataatg catataatta gcatataata tgcataatgtt 1680
 aacatgctaa cagacactcc ctccatgaca gtttacaat gccaaaggca cgtcagaaag 1740
 ttaccctata ggggttataaa gggggagaaa ctacacagctc tgggaattgc ctactccttt 1800
 cctgtaaaac tcatgaataa ttcacctctt gtttagcata taatcaagaa ataactcagg 1860
 ccaggcatgg tgactcacgc ctgtaatccg agcacttttg gaggtgagg tgggtggatc 1920
 acctgaggtg tcaggaattc cagaccagac tggccaacat ggtgaaacc catctgtact 1980
 aaaaatacaa aattagtcag gcatagtggc atgcgctat aatcccagct actcaggtgg 2040
 ctgagacgag aatcgctttg aaccggggag gtggagggtg cagtgagccg agattgcacc 2100
 attgcactcc agcctgggca acacagcgag actgtcacia acaacaaaac aaacaaacaa 2160
 caacaacaac aaaactgtaa gtatactcaa ttgagcagcc cacgtgttg ctctatggag 2220
 tagccattct ttcattcctt tactttctta ataaacttac tttcgcttt 2269

<210> 824

<211> 2126

<212> DNA

<213> Homo sapiens

<400> 824

aagagcacac tgttgcagct gccctccttg gatggaacta tggaatgatt tttattcttc 60
 tacttcccag gtgaatggga aaccaaggac acagtcagca tttaacaaaa aggaatctgc 120
 atctcagtca gaactgtatt gcatttgctt ctctctggat taccttgaag ttactccct 180

tccctcaata ataatggcat tatgaaaaaa attggaattg atcaaatgaa gtaaagagta 240
aacagaggaa agactacca aagtctgttt tgcttcagtt cggggctgat gatctgggga 300
ggaggagggtt gggacatatt tgtgctgcaa ggaacaatat tgtttcatgc aggggaggtg 360
catgactaac aaaagggtta actggatcct ataagctata gacagcttct aggcagtgcc 420
aacctgtgct gcatacctga acattgttgc ttccccacg gaaggtaata agctgtggag 480
ctgcacaggc attttgtatt actcgtttca ctcatggcc ttggtgcctg ccagaaattg 540
aggtcggggg aaaggcagaa gttcacactc ctggaccag tttggccagt ccaggcagcc 600
tgctcttcac atcactccag agttggacct gccagagtg gaactagaat aggggtgtggg 660
tagcacctgc ttccctccc atagattagt gccctagacg ggtagctctg gcagaggggc 720
tgccaataac ccagaatcca gcacaacgaa aggcacttct ggcccagctc tgactaacc 780
cactgttctt cctttcccca gcttctttca agctggaatc aatctgttgt tcttcggacc 840
tgagggtcaac atgactttga tgaacggaat tcatgtcttc ttgctaaagt tatctggaca 900
cttggtacaa cacagagtgt ctgatatctg ggcctgggga gacctcagag gccctgggga 960
gccagagac ttgtggagtg tcagggcagc tctcctgctg tgaatgcaag ctccctggga 1020
aagttctccc tagaaaaaga tgtgggggag gagctcaggt gaaggacaga gcctcctgcc 1080
cgtggagaga aagtgggccc tggagaagct gcatgagtcc tctccagcag aagggccaga 1140
ggtgcacatt agtggggctc ggggtgggtct catggtgaca ttggctggag atgccaaatc 1200
cacaggcgtt aggcctgggc aggttctagt gtgcgagtgg gctagttttt ctagactagc 1260
acacaggaag aggggtggcct ggcttgcctt ccctctgaag ctcaggactg aggccagga 1320
catgtctcac accattgata tgagttgggg acagatgggt ggcagatgtg cccaatcagg 1380
ctgcattgac acctgactgg ctggaagaag agcctgtaa gcaaagagcc cagtcttct 1440
gtaagaagga agaagatgga gggctcatca tgcacgtggg ccagaaaaag tgccagtgag 1500
gttgttctga ctccataggt gttctggaca taatctaggc tgtcacaaaa cagccaagcc 1560
tgctgccagt ttccaatctg ggatctcagg gagggccagg ggcttgctga gttccacctt 1620
ccctctttcc cttggtttgg agacaacttt ctccctgtgg tgaatgtgac acttagaaca 1680
aggtgcagcc ctactaaaag ctggagctta ggtcactggg actgtgtgct aggggaaaga 1740
gggggaggga agagcagggc tgtggcatta gacagacttt ggctgaaatc ttggacctgc 1800
ctcctactag ctgtgagatc ttagcaaatt acttctgct ataggctaaa tgtctgtgtc 1860
cccctaaaat gcacatgtta aatcctgatg cccaaggtga tggatatttg aagcggggcc 1920

tttgggaggt gatgagggtg gaatcctcat gaatgggatt agtaccctta tgtaacaagg 1980
ccccagagag ctccctcaca ccttccacca tgtaagatta caggggaaag acaggccctt 2040
cagcagacac tgaatccact ggcaccttga tcttggactt cctagcctcc agactgtgag 2100
taataaatgt ctattgttta taagcc 2126

<210> 825

<211> 2004

<212> DNA

<213> Homo sapiens

<400> 825

ttatcagtgc tgaagccatc ctgagaggat ggactggggg aaggcagtca gctgctttgg 60
agggagaagc gtgcatggtt tctcagggtg ctctctgcc ctctcctccc acaatgtggg 120
gactgcaaca ccctgtgtgg cacagaaggc tgggcccacc cccaccaggg gatagatcca 180
ggattacgtc cccagagcca gtcaggccct tcagcatggg ctgccctcct agagcattcc 240
tttgatcctt tctggggctg gaagaagtag gggttgggca ctggctattc aatagggacc 300
tctgaggacc tctagggtcc ttagagtcca tgattgatat gttccccaca gcccagtttg 360
aaggaccgga gaagagctgc ctgtcacctg gccgggagga gaaggggcgg ctacctcccc 420
gactctctgc agggaacccc aagtcagcca aaccctaag catggagccc agcaaccccc 480
tgggggagtg gacagatcca gcaactgcctc tggaaaacca ggtgtgagtg tctgtgtcca 540
gctggggact cctccccac tcttcccctc ctggcactgg cttccctaca ggggtcacc 600
acaatgggtg ggcttgaca gcgagggacc cagcagagat gcccccttc ctctctctca 660
tccttagctg gtatcacggg gccatcagcc gaaccgacgc cgagaacctg ctccggctgt 720
gcaaagaggc cagctacctg gtgcgcaaca gtgagaccag caagaatgac ttctccctct 780
ccctcaagtg agtggggaca gttgtggttt caggacagc aagcagggtg gaaggggact 840
ccagtattcc ccttatgcc aaccaagctg gggaggtccc catccccat gaacaatccc 900
caggcactgg gggctctgag atgtctgaga ctgagccct gctctcaagg agctcagagt 960
ccattgggag aaatagttga tccgcagcat ccagctcaga agggttctgt tctagttgtg 1020

tggcctggcc cccttaacct ctctaggcct cagtttcctt actaatgaaa tggatggggg 1080
 ataatatagg gaaggattag gtgaaataat gcatgggaag tgcttagcat agtgctaagg 1140
 gctcaataaa ttatcactgt cattattaat ggaagcccaa gatgttctag aagcataggc 1200
 aaggagatag gagctttgcg tgaggagtc tgtagggtgt tggcgggggc tggttcctgg 1260
 aaggagggca gggcagtga cacaaagtat ttctgtttac tctgaggaag agtgtgtgtg 1320
 tctgtgtgtg tgttcgggga tggggggtgt ctgagctttt gggtcctgga agacgtagag 1380
 gaggcaaggc cctccctccc catcaggctt tcctcccagg agcagcagat cagcctccca 1440
 gactccctgg tagcatggcc agccctgccc tgggcaacca ggagttctgc ctggtagacc 1500
 ctgcaccccg ttaggaagcc agtggggtgg tatgttcatt tgccccccac catcactagt 1560
 aggacacctg caccactttc taccacattc tctgggacca tcagagtaca gatataacct 1620
 cccattcaga caaatccaat ctatgggaac ttggggctgc taaacaagac atatttgggg 1680
 gataattatt caacttcct caaagataat agaaaaagtg gtgggtgtgt tggctcacat 1740
 ctgtaatccc agcactttca aaggccgtgg cagggtgatc acctgaagtc aggagttcga 1800
 gaccaacctg accaacaatgg tgaacctcg tctctactaa aaatacaaaa attagttggg 1860
 tgtgatggtg agcactggta atgccagcta ctcgggaggc tgaggcagga aaatcgcttg 1920
 aaccaggag gcggaggttg cagtgagccg atattgcgcc attgcactcc agcccaggcc 1980
 aacaacagca agactctgtc tcag 2004

<210> 826

<211> 2577

<212> DNA

<213> Homo sapiens

<400> 826

aagcatgaag ttctcttcct gcttaaaccg aggagcaaaa cctgatgaga taaatggcag 60
 gaaaaagatg cccgccattc tcttcaggga gagacacggg ctgaaaggag aaaggacaac 120
 agtgacaagg ggaaggttcc ggccccaccg ggctgcaagg gccgggaagc tgtgccgggg 180
 gcgctttaga ggccagagcc agggaggggg cccgcgacac aggcgggtct tccaggcggg 240

cccagggcca ggacagcgcg gcatcaccgc gccagtcctc tgcagccagg atgaaggccg 300
gggacagacg ttcagtccta gaccctccag acagggctgg gcagtgccgg tgggtgcctg 360
ggagaggcgg aggcgggagc acttccagca ccaggttcgg gaaggacagc atgcccagcc 420
gctggagccc ctggcctgcg tgccccaccc tgattttctg gcatctggtg aacggcccct 480
ccgcaggggtg ggggtagcca ggggatctgc cgaggaaagc tggggacagc gggcttggtg 540
gcgcggggcg gcgcggcgcg tgcttggggc gcgtggccgg ccacagaacc cggggagggt 600
ggaggctccc gggcacgcgc cggggtggtg ggcagcccgg gacggcagcg gcgatccgtc 660
acctgaggag gggcggggag ttcacgcgg ccaggccgag gcgccgaggg tcccttgccg 720
cttccgcccc tctccgctgg ccccgacgcc gcgctcgggc cgggactcga gccccggttc 780
cgcggggagc gctcaggtct gcgcgctgcg cctgcagccg aggcagaaat ccgtcccag 840
gcgcgggagc cgggtccggg tccaaggat gcgcgtcggg ctccctcccg cggggacagc 900
cgagctccgc cggggctcca ggtgttcccg cagtgcgtcc gggcgcgagc gcctctctgc 960
cctcggaggg gaagcgggag ggcccttggg gtaacgcccc gacctcgggc ttcctaacct 1020
gggtcgacag ccggctggca cagggaggcc tgcgcgggag aggggcggag agagcgcagc 1080
gcgggggtaca gcgggaggtc tccgtgccgc gcgcgcgact ggaaacggcg tgcagatcct 1140
aaaacgaggg ttccacagag ggccacgagg ggcaggagag agtccccgga gaactctagc 1200
tccccgacac ggctacctct cggcaaacga gcgagaattg gggcgagag ccttgggagg 1260
gccgttcctt cggcgggagc ggcccagca cagcctcaca gcagatgcga gcgcggcggg 1320
cgctttggtg acgaagtagc gggacctgca ggaggcagag gcctggtggg gccgtggacg 1380
ccacgccgag ctgccagac ccttccagaa gacagtgggg actattcaac ggtttccagc 1440
agaaactaag ccagggtgtt gttttacgga gattgctcgg ctgcagggtg gaggttgat 1500
gagaacaggc gtcctctcag gtaggcgctc gtggtggtaa cgctgccag gaggagggca 1560
cgggttccgg gaagacttgc gaggttaaag cggcagctcc ggagaactga gcgcaagagg 1620
tcggtgacac agagaggagt ccgggaggcc gcatgtttca ggctgaagtc acttggcggg 1680
gacgtttatt gagatgcgaa acacaggaag ggatagaggc tgcgcagagg gaaaaggcga 1740
tggtactcgt tttggaaacg ctgatgtgaa gtccctacga tgaaaaaga aatcttccga 1800
tttctccctt tgaagtcttt gcttcttccg ttgcaaagaa cacagcctat gacatcaggt 1860
tgaaaccaag aatgtagttc tctgaaaata ctgtgtgtgg gggagggagt ttatcttgtc 1920
tcattcctta caaggatact ttgctctccg acaccttagc tccctgaaag tttcctagat 1980

cgtccatctt ttcctcattt tttcgactgc aagcaatgaa ctgttaataa ttttttacag 2040
 tttggtttta cagccacaca ctttattctt ctttgtcaag tttaaagtat tctagggctt 2100
 gtgccttccc acataaaatt tagaataaac ttgtctgttt ctacaaaaag ccatgttggt 2160
 atttcgagag gaattgcaat caacctatgg atcaaattga gaattgtatc cttattatgt 2220
 tgaatcttcc aaccacgaa catggtatgt ctgtctattt aaatagtttt ttttttcac 2280
 tactttcatc agaattgtgt gattttttca acatcagatc ctatcacgtt ttgttaggtt 2340
 tatacttaaa tatttccttt gctctcaaga gatttaaact gttattattt ttatttcagt 2400
 ttttcatgt ttgttgtag catacagaaa tgtgattgtg tttctcatgt tgatctcata 2460
 tcctgtgacc ttggcaact cacctattaa ttttaagagg ttatttgtgt attacttggc 2520
 attttccatg tagataatca tgctatctgc aaatatggag agttttattt ctacctt 2577

<210> 827

<211> 3389

<212> DNA

<213> Homo sapiens

<400> 827

cttgtgcaga ggactctcca ggtgaaggct caagggtgga tccagctcga gacaccctcg 60
 ctccccctca cagtcggacc ttaggattta ggctttaaca tctccacatc atgagattcg 120
 aaacctttag gtcttgtctt ccgttctgtc ctccaaatcg gcctcttccg agcctgttga 180
 ccagggccag ccgggcagag ggctgggctc gctcaacgag gtcctctcg cacctcctgg 240
 agcttcaggc ttctttccgt tgcagagaag ctttatgggc caattcggtc ggcacccccg 300
 ggggcagggtg cgcggtgcgc ggggaagaag aggatttgac tgcggttctc caccctcggc 360
 gcccaacctc caccctgggtg cgcgcgtctt tccaggctcc tgctgggtccc acttgccagg 420
 agttaggtct caggtcagcc tgagctcctg agacgcccag gcccggaag acacgtaggg 480
 gaaaccatct gtcacttct gtcctgtccg gaagggatcc ctttctgacg ggaaagaaag 540
 gcggtgagtc ctgtcctgtt gagtaggcgg aagagagatc aaagggaaga caagaaaaat 600
 cctgtgagtt ttcaggatct aaagttacca tgaggctgac ctaacctcct ctggaggtcc 660

tccccgtcct cccgtggctg tcgaaggtga atctagcttc cgtctccagt tcgccaaggc 720
ggacaaagcc gacgacaatg ggcctgtcca ctatcttctt tcatatgcac aaaatgtcag 780
ctcttcttgt ttctaacttg caacatccca cctgatgacc agctcagcaa attagagacc 840
ctccatggga ttccatctct gtcttagttc gggcttccat aactatatac cataaactgg 900
gtggctaatt cacgacagaa atttatttct cacagttctg gaggttgga gtccgagatc 960
aaggtgccaa catggtaggg ttatgatgag ggactttttt ctggtttag actgccacct 1020
tctcattgta tcctcagggg gcagagagag ctccctgggg tcccttttat agtggcatta 1080
gtcccactca gactaacggg actaaatcca gaccagttta ttgcaatgtg tgcaaaagaa 1140
caaggacttg tactatctga cttcaaggct tactataagc tattacagac aaggcatcag 1200
gagggacaaa tagataaaca gactgagtta agagacctga aactgatcca cagccataca 1260
gtcaataaat gagctttcaa tgaaagcagt tcaatagaag aaaataaatc atttcaatta 1320
atggactttc atatggaggt gggggagacc aacaatgtta ttctccctca cactacatac 1380
aaaagtaatt tgaggtgcat tatacaccaa aacttaaaag ttaaagatat aaagcatttc 1440
aaggatactc tgtaggtaaa gattagccta ccaacaagta ggacactgaa aaaatatata 1500
taaaagacat gataaattag acttcatcaa cattagccat accttctcat caaaagatac 1560
cactaagaaa gtgaaaaggc aagcaagcca cagacagaga gaaaatagtc acaaaacgta 1620
tctgacctcc acatcctgta attagaatta ttgtggtctg gtacactgca ccagtttct 1680
gcaggagtac tttctgggtg tctctaata gaagagagg gccccatggg atatttctac 1740
agtcccaga tgaacagtgg gaaagactct acgttgacaa accccgggga cctgaaacct 1800
caggtcctca aggagggtag aggataacct gaccctgacc cagacccta gatgggctgt 1860
gccaagagac ccagcaaggg aagggtattc ctcctgcctc aggttctctg ttcttctgtg 1920
gttagaagac ctgaaccaa ctccctcccc aagcagtgga gatagggtt ttccaagggc 1980
tggggatctt gctgtcctaa ggacagctga gcaaggaggt cgaggaggat cttgggtggt 2040
ggaggagagg aaaccgggta agatgtgtga agcagtcggc tataccaggc acagagagga 2100
cccactggga cacaagagcc tgcattgtga gccaggcctt gggccacctt gttcctcaaa 2160
ggggtgctta cttccatggg atcttcaaag ggactgtgga aagagaagcc ttcagcccac 2220
acctctgaat gcttttccac cacagcatgc cctgtggcct gtatcctgct ggtgtggaac 2280
agtcagacct ctgcagggt gcagagcctc tgtactgggc ggcattccag cctgagtgcc 2340
agagctcagt gggcaggccc ccgagcaagt agagaggagg gcacctttg gacagaacct 2400

gtgggacaag agcgacgtct catccgttca ggttcctcac aaaatgagag tcaggaagat 2460
 cagggtgcag acctgatttc ccacgaaggg ctgaaagcag acaaccggag ggagagcagc 2520
 acctgggcca atgaggtaga agacagaaga ccacagtgtg cttctgccct caacctcacc 2580
 cctcccacc tacatcctcc acacccctg accaccttct tcagaaacgt aataggaatc 2640
 aagatcccc ctggcctggt tgctatggga ggcacagtgg cctgatggag cctgaggcag 2700
 gtgtgggaag atgtggattg tctaactgga ggttgggagt ccagggtgca gaaggagaag 2760
 cttggagtgc aggatttggg ggtatgtgtg tggcagtagg cactatgttc taattgccag 2820
 ttttttttct ttttctctt ttttctctag ctaaacaagc actggccttg agataagcaa 2880
 tgctgaagca cttgcagctc acctattacc ataaactgac tgagccctcc ctacacaagc 2940
 cgtaactact gctttgattg gacaagagac tgatttcagt agttttctct tgataagaga 3000
 ccactggccg tgggcggggt ctggacagtt tacagaagct atgcacttga ttgcctttgt 3060
 gtccctgctt caccttttga agcatagggc ctaattataa tgtattttaa tgttgtctcc 3120
 accccaaagt gaacatgggt tgcattgaac aggcattgtt actcagcatg catgcagcag 3180
 gatcccttca caaatattca gagctcccc tattccctgt tgaatatgta tatgtggcca 3240
 gccagatcaa cgtaaatcac tattegcct cccctccctg gaaacctact tttcgggttt 3300
 cagcaggaag ctatgcctcc cagtctgtca gaatggccac ttgcaggctg taacccttta 3360
 taaaaaata aaatctcctt tctaaattt 3389

<210> 828

<211> 2804

<212> DNA

<213> Homo sapiens

<400> 828

agactactga cttggaccag cagggaatg gctgtgacaa taaataagat tgggaaaaca 60
 agaagtcctt tccaggacac tgaaggctgc agagggtgtg ctggatgctg gtggagggat 120
 gcatggcggg gaagctgagt cagatcctga aatcctccaa gcatgcccct gaaatgacca 180
 agggaaatga aggcgaggc tgctgtcgcc tgggtggcctg ggaaggcca agagccaggg 240

agctggaggg aggagagaac gtgcgacctc agcacggagc actgtagggg aggcggggct 300
ggagggagat ggcgccgcgc tcccggatga acagagaaag cgacagggtg ggtcgcaggg 360
cacagtgtgg gatgagtcac cgacagcaag gcatggactc cgggaagaag gggagacgag 420
ccgggaaaga cttgcatcgg ggatgtgagc tgagctgcac ccagacaaaa gcggctcggg 480
gctcctgaaa gcagcaggca ccgccgtcc tgccaagggg ctacttcctg cgcggagtag 540
gagagtagga gaccccaggc cagtcccaat ccccggcccg ttcgggatga ggggggctgc 600
gggagctgcg ggggcctcct ccagggagga cggttgcagg gtccctcggc cgccgccac 660
tcccgggggc gttccttctt cccagctgcg cccggagcgc ctgctgcctg gcgagagccc 720
gcccctctgc aaccagcccg ctgcagcggg gggcgccctg gtgccctcgg ccgagccagc 780
agcccacggg cggcgccgca ctgtcccctg gtggcggagc gctcccgcga cccggctcgc 840
cacgcctggg aggggtccag gaggacgcgg ctgggacctg ggggctctca ggggtggggcc 900
ttgggggatg aggctggggc ccgcgggaaa cgggctggg gcgaggaggc tcgcaggact 960
tcctgccaca gaatgtttcg atgctttttt taattctgca aatgtaagcc tttccacttt 1020
aagtccaagc tcagcgcaga ggactgttct ataatacata caatttagtt taaaaatgtt 1080
gcaaagtgtt acatgtgtca caaactcaag caatccagta ttatagaaag caaagaatga 1140
aatgtgctgc ttctttctcc tccagacgcc cttgcataca ttaagatatg tatatatgga 1200
aatgttaccg ggagtcccgg ttatcccaaa aagggttggt tcctgttgcg tggtagggcc 1260
aatgcacgaa accgaaaggg agtgtgtcaa gcagtgcagg ctgtattcaa tggctatgga 1320
attggaagat ctgaaatcaa cttagcttgt gagagctggg aagtttcaga ggtaggggtg 1380
ctttaatgaa ggggctgggc attaagagca cgggggggaa tattcgtgct ttccttggga 1440
aagaacggag atttttcccg gaatcaagaa accccttttt ttctgtccct tcttggctct 1500
ttccagtcgt tgtcatggcg acatgttggt tagcatgaga acaggatgat gataaagcca 1560
gaggctcttc agaggcgcca tcttggattt cgccagcttc agctggtttc gtcctaagaa 1620
ggaacttcga aacacaggca ttctttttcc tgaaaataag cagagttaca gctgagtagg 1680
aathtagctc tgtcccatat gctatcgcat tgggcagcaa aagcagggtg ggggtccagcg 1740
aaatcagcag gcaactgcaat gagtaacata ccagccacg tttatgcagc atttttacga 1800
aaatgaaacc atactacctg taaaggaaga tatgctaaca aacaacaaaa ctggcaggaa 1860
ccaagattcc tactgacact acccttagtt ttaattttcc ctgacaacaa atgagggttaa 1920
cagagcataa ttatctaccg tgacccttc aaaaagacag gctgtataca tttgcactaa 1980

gagaagaaat cgtgtaatgt cagcaaattt cccccactta aagcttctct atttaaaaag 2040
 cttcacgcac acatgcacgc acatgtcttc aagatgacca caatttattt tgcagtcatt 2100
 ctttgcacca gttcccaatt tttcccaacta gcttgcaagc tccgtgactc gaggagaccg 2160
 ggggatcaga gtttgttttt gcggagaagt gagtccttta tgccccaaat agtgactgac 2220
 atagagaagg tactcagtaa acacttttta aaggaatgcc tgcctgactg aagcttaatg 2280
 atgtgaggct tctagtggga taccctacct tgttttaacc tgaagtgact cttccttagc 2340
 taagagagcc agacggactc catcgtgact ccttcaactcg cagcccctta cccaccccct 2400
 tcctcaagga ctttaacttgt gcaagctgac tcccagcaca tcaagaatgc aattaactga 2460
 taagatactg tggcaagcta tatccgcagt tcccaggaat tcgcccgtt aatagcacc 2520
 agagcccctg cgtttgtgtc cggttgataa cgcccaaagc ccggcgtcca tcacctagg 2580
 atagacttaa agcctctgca cctggaactg tttactttcc tgtaaccgtt taccctttta 2640
 actttttgcc tactttactt ctgtaagatt gtttcaacta gactccccct ctcccctgtc 2700
 taaaccaaag tataaaagaa aatctagctc cttcttcggg gccaagagaa tttcgagcgc 2760
 tagctgtctc tcggctgccg gctaataaag gactcctgaa ttcg 2804

<210> 829

<211> 2344

<212> DNA

<213> Homo sapiens

<400> 829

gcccatgctt gggagggtgg ggcacagtgg ccacctttcc tctgccccca ggacctgaag 60
 cccggcaacc tggctgtgaa cgaagactgt gagctgaaga tcctggactt cggcctggcc 120
 aggcaggcag acagtgagat gactgggtac gcggtgacct ggtggtaccg ggctcccag 180
 gtcactttga attggatgcg ctacacgcag acgggtgaga agctgcccag agatctgggc 240
 ctctcaggct gcaccatctg cttctccact tcttcacgga cagccctgtg gtggctgctc 300
 ccaggagggc tgttgagctg ggggtgggagc cgggcaggtg ggctgtgttg gtgtctcctc 360
 cctccccgtc tcactctgtc cccctgcccc cgagagctgac cagggttct atctcagtgg 420

acatctggtc cgtgggctgc atcatggcgg agatgatcac aggcaagacg ctgttcaagg 480
gcagcgaccg tatectccag ccgcaggggcgc gcaccagggg cgggtgggga tggctcctgc 540
ccaggtgggg gcagtggggg ccctgatctc tggccccga gctgtgttcc tgacctcgtt 600
gcagacctgg accagctgaa ggagatcatg aaggtgacgg ggacgcctcc ggctgagttt 660
gtgcagcggc tgcagagcga tgaggccaag aactacatga agggcctccc cgaattggag 720
aagaaggatt ttgcctctat cctgaccaat gcaagccctc tggctgtgaa cctcctggag 780
aagatgctgg tgctggacgc ggagcagcgg gtgacggcag gcgaggcgct ggcccatccc 840
tacttcgagt ccctgcacga cacggaagat gagccccagg tccagaagta tgatgactcc 900
tttgacgacg ttgaccgcac actggatgaa tggaaagcgtg agtggggggc tcctggcacg 960
gcctgtgtgg acccaagtgg ggggctcttg gcagggcctg tgtggaccg tgagttgggg 1020
gctctgggca gggcctgtgt gaaccctga gttgggggct ccgggtaggg cctgtgtgga 1080
ccccgtgggc cctgtgcagg tggccaggct cagagtccta gatecccatc cctgggatgc 1140
aggtcaggtg aggaggatgg gaggtcaggg cagcatgggg ccgtgtggcc tgggtggagat 1200
gacctctggc tggagctgga agatgaaggg aagggtgttc ctggcaggct cagcacagag 1260
gctggcacag aaggagccgg gagtgggtgaa aggcagctgt gagtcaaggga accagggccc 1320
acttagcccc tcctggcccc cagacctgct gcccttccgc catgtccagg ccagagacct 1380
gggccaccct gacacctca ccacgtccgc ttgtccctaa ggcctctctg ctcacacctc 1440
ctgaatctgt ccttgccctc ccttgcccca tttttgttt ttgagacgga gtctcactct 1500
gatgccagg ctggagggca gtggcacgat cttgactcac tgcaagctcc gtctcccggg 1560
tacacaccgt tctcctgcct cagcctcccg agtagctggg actacaggcg cccgccacca 1620
ggcctggcta attttttgta tttttagtag agacagggtt tcaccgtgtt agccaggatg 1680
gtcttgatct cctgacctcg tgatccacct gccttggcct cccaaagtgc tgggattaca 1740
ggcgtgagcc accgcgcca gccctctcct tgccccactt taggatccct cccccctgga 1800
caactgtata cccaagacag tccccagggc ctcgcctgtc tccccagcc cccgctaagc 1860
agtccagact ccaaccccaa ctgctgggggt ccatcatccc ctataccagg ggctatcccc 1920
tcaacttgga gggctggcca aagcctgtgc agcctcaggc tggactcaga gaagcctccc 1980
cagctccgc agctatgtg tggcctgagg ctgtgtgga cctggcttca tttctgctcc 2040
aggatggcag gctgtgtctt cttcatggct gcatgaccag cctgggggtg gtgtgcccgg 2100
ggaaagtagg tgtacactgg gagccgtgcc atgtttcagg ccctgtcctg gctctgcctc 2160

gggtgcggga ccttggtcct ccacactggc tgggtggggc tggatgggtt gagattcaca 2220
tgtgctcctt acgaccacgg gtccctgggt gcccgagca gggcctccac ccttcgctgt 2280
gtgcatattc gtgtgcttat gagtttggct ttgtttgatt aaaggtttct gctgctagaa 2340
agat 2344

<210> 830

<211> 2376

<212> DNA

<213> Homo sapiens

<400> 830

acggtgctgt ggaattctct ggtttttcac gcaaggtcag gcgtcctgct ggcgccctct 60
cgccaccctg ccctcccgtc agaagcccgg ctctcgcgcg gggaaggccg gatgctggcc 120
cgccgggacc tgggacttgt gccacatgga gtgtcgggag tctccattgc cgcgagttct 180
acaccacagg gccaggctgt ttgctcccca tcggtcgctg cccccagcac cctgtttgta 240
ttaaggactc atttgcttgg agcggcatca ttacaagggt gtgggggtact acatatactc 300
cctatttttc tattttcgaa aggctgcagg cgcgatgcac agtgcgcttg cacggtgggg 360
cctagtgcta gcccaggag cggacggggg ccgggcaggg gcggtgggcg ccggcctcgt 420
ctcgggtgctg ctcggtcagg ctgtcccggc gcggcgggccg cgggaggccc tgccgtcctt 480
cacccttga ggcgggctgg ggggcgggtg cggggcgctt cccctcctca gggccctcaa 540
accgcaagg ggtttccgct tcccagtcga tggtcgtcct ctcccatccc cggctgcac 600
tccatttacc cgtcgcccat ttcctttgcc catccaggct ccttggtcc actggggtct 660
ccgttccctt ctcccggtcc cccctccagg tcgcggctcc tttgtccagg actacgcagg 720
ggcttgacct cagggcgctg gtttaggccg gatctgggggt cccttgtcac tcccaggctt 780
cttccacttc cgaattctgg agaaccggga atcaagccct gcgcgttcct cttcttctc 840
cttcgtgccg aaagcacgct tcatgtctgc cagggcacatca gttctgaaag tgagcggaga 900
acaaggagtt tctttttctt cccagaagt tgccttttgt aaggactatg tctgcgccag 960
ggcttgatac atgttgctac tcctgggagt gtgagactgg gaagctgatg gaaatgtcag 1020

cattagcttt aatggtgagg ccaaagggag gatggaccca gcatcaagcc tgggtagagg 1080
agaacgggag agggaggacc agaaccaggg gccgcctgtt cactgccttg aggtgtctga 1140
atcctgcctt tgctgtttgt gagctctagc actatgggta agttgggttaa ctttttgagc 1200
ctcagtttcc tgttctgtca agtgggaata caacttccta gctcacagag ttgtggtgag 1260
gattatgaac tattatgcat ctacagtgtc ctcctggcaa gtgaaaaggc tcagtaaagg 1320
gtaactgtta tcatgggtcca gtctaaactt ccgtgctagc cttcaccaa attgatctta 1380
cagaaatcaa aaggttcctg cttttccac cttgtttgga attagaaaaa aacttcccct 1440
gcactattag tgttttatag gcctcttctc tccaagacag aaaggaggag agggtaacgg 1500
ggcttatttt cttctcccag gactcttgaa gaaggattca ggatgtggct gtgccgtgg 1560
ggataaacgg tgtaacactg gggcagggtca gtttccttgt tggtagcatg ggactcttac 1620
acaggccccct tcctttccag caccagatac tgctacacca tctcatcggc atggacctat 1680
atgtggcagc aagtccatct catcgctttt ggtgaaagtc agtccagttt gtaaagattc 1740
tcattgtcac ttagacgag gaactgggac accaaaagga gaaactctgg ccacacttgc 1800
accctgttcc caatcctggt ccagtgtcac ccacagatgg taaggagctc tagagacctc 1860
accagccccct gggattggtc acctactct tctatggaca gagattcctg ctgggacctc 1920
ttgagggcaa gcagaccctt cttccagctc ggactgtgaa ctccactgca gccgtaagga 1980
ctgtctgtga cagttagccc gagatgactg ggctctgtgc tccctcccgg cctccaatc 2040
cttggcctgc cacagagaac tgagctcttt tattagcacc atgaatgtga ctgatacagc 2100
tagccattcc cttgtgcgaa tgactcagtt tattaatgct ctgctaaaga tggcttcttt 2160
gcttgccagc agccttaaac agtatttcat taaaactggc ttaattattt tgagaagacg 2220
gccaattaa aagctataca ctccctctat gtgagtgttt atacatagag ctgtatatat 2280
aatacatatt tgtaagtgtg tgtatatata tatgtgtatg tatgtgtcta taaatatata 2340
ggcttagcaa tttcattaca tgggataaat tgttgg 2376

<210> 831

<211> 1851

<212> DNA

<213> Homo sapiens

<400> 831

aagtttggta gagtgtgttg tggggacagc agtatggtgt gagggaagga gagggttcag 60
tctattataa tcattagtct attgacttgt ggtaattgag ctataggaga taaattccta 120
cttactctac acatttaatg gactcttcct cccaccccat cttccctgtc cttttctttt 180
tccacagcag ctctgcaacg ggccaatagc ttccagtctc caacccaag caaataccag 240
aactggagga gagaattctg gtggagtttg acgccagtga acaaaagaac tatgtcacct 300
cctaaggacc cttctccttc tcttctcttt ccttcacgtt cttcccatc atcttcccca 360
ccatcttctt cttcaaccag tgtttctggg aatgctccag atggttcctc cccgcctcag 420
atgacagctt ctgagcccct ctgcaagtc tcgagaggtc atccaagtcc tcccaccca 480
aactttcgga ggcgagccat agcccaagga gcaccaggg aaattcccct gtatctgcct 540
catcacccaa agccagagtg ggcagagtac tgccctggta gccctggta agatggcctc 600
tcagaccctg cagagatgac ttctgatgag tgccagccag cagaggcccc tcttggggac 660
atcggaagca accacagaga cccacacccc atctggggga aggacaggag ctggacaggc 720
caagagctat ctcccttggc tggagaagac cgggaaaaag ggagtactgg agccaggaag 780
gaagaagagg gagggccagt gctggtaaag gagaagtgg gcctgaagaa gttagtcctc 840
actcaggagc agaagaccat gttgttggat tggaatgact ccatccctga gagtgtgcac 900
ctcaaagctg gggagcgaat ttcccagaaa agtgctgaga atggttagagg aggccgtgtg 960
ctaaaaccag tccgccccct gctgctccct agggcagcag gagagcccct gccaacccag 1020
agaggggctc aggagaagat ggggacccct gcggaacaag ctcaagggga gcgaaacgtg 1080
cctccacca agtccccact gcggctcata gccaatgcca tccgaaggtc tctagagccc 1140
ctcctttcca actctgaagg tgggaagaag gcctgggcca agcaagaatc caaaactttg 1200
cccacacagg cctgcactcg ctattcggc cttcggaaaa ccaattcaa taaagacggg 1260
gaccagcatt cccctgggag aaaccagtcc tcagccttta gccctcctga ccctgccctc 1320
cgcaccaca gtttgcccaa tcggccatcc aaggcttttc ctgcacttag gtccccacc 1380
tgcaagcaaga ttgaagatgt cccacactc ctgagaaaag tgagtttgca agagaacttc 1440
ccagatgctt ctaagcctcc aaagaaaaga atctcacttt tttctcctc cagactcaaa 1500
gacaaatctt ttgagagttt cctccaagaa tccagacaaa gaaaggacat cagggacctc 1560
tttggcagcc ccaagaggaa ggtgctgcct gaagatagtg cgcaggccct ggagaagctg 1620

ctgcagcctt tcaaaagcac ctccctgcgc caggcagctc ctccctctcc tctcctcct 1680
cctcctcctc ctccctctcc tctacagcg ggaggtgcag actccaagaa ctttcccctc 1740
agagcacagg taacagaggc ttctctttct gcctcttcaa cctcctcctc ctctgcagat 1800
gaagaatttg atccccagct ttctttgcag ttaaaggaga agaagacact t 1851

<210> 832

<211> 2711

<212> DNA

<213> Homo sapiens

<400> 832

tgcttgaggc tcacttttgg ggccccacag ctggagccgg tataatgact gggacaacat 60
caaggggtgg atgaggggcc tctcctcccg caacactgcc ttcccatgct gttcccctgc 120
cagctcctta aactgccga ccaaggccag ccctggcatt cagggaatt ggagggcagc 180
acccgtaggg tggccagcct caggccccac ccagctgtg tctctagtc tctggggacc 240
cctgggggga agaagtctac cctgcttgtg agtcccgtct cagtgtggag gaactggctg 300
cacatgggac ctgaaggtgc cctctgtgtt tatgttgggg gtgggggggc agtgctggct 360
gcctctgtcc tgtgtgtgac cctaccctcg aagggtcctg tcctgtcagt ccgagggag 420
ccacaaccaa agctgcggag agaaggtggg gaaggtgcg gaatggccgt ggggcacagc 480
gtggcagact gttcagtctc tgctgggtct ttcctaggga cctggaaggc cagtgttgc 540
tccccctcac tccctttcac tgcaggcagc ctctctgctt cccaatgcc ttatgcctgg 600
gcacactgcc acagaatatg caatatgtgt gggtgaccat gccctcacga ccacaccccc 660
accccgggca gccccggac tccaaaggct gtggctgcca cagcctcct cagctcttcc 720
tgcctatctg tcttcacact gagaatggcg cccaataaat gctatccag gagaccaggc 780
tcaggctcca gctgcctctg tcatcgtatg cccttgctgc tgccaggag gggccatctc 840
ccaccccctc ccctgccggg gtctacaaac atatctagct gctgggtgcc gtggctcaca 900
cctatagtca cagcactagg cgggcagatt acctgaggct agaagttcaa gaccagcctg 960
gccaacatgg taaaaccccg tctctactaa aaatacaaaa attagctgag cgtggtggcg 1020

catgtctgta gtcccagcta ctcggtact caggagactg acgcacgaga atcgcttgaa 1080
cccgaggaggc ggagggttgca gtgagctgag atcgtgccac tgcactccag cctgagcgac 1140
agagtgagac cctgtctaaa aaaaaacaat aataataaaa taaaataaca tacctagctg 1200
actcgccatg ggctcgctgg cctgtgggag acactggctt cccttttggg atttcccaga 1260
agatccagat tttcttaagt ccccttgga cagactaaga aaggatcacc ttagaaatca 1320
cctggtccta ttgtccccc cgtacatgag taactgaggc ccacagagag caaatcgctt 1380
gcctgagtca cacagcagtg agtggcagac ctaggctagg aactaggact ggggattgct 1440
attccagtgc tccccatcct cacacagact gcacagtccg cctggacaca cccagctga 1500
cagtgggtacc tcccagtcag ccaggagaat ggattcctt tcttcagta ggggccccct 1560
ggctgagtgg cctgattgac taaaacatat gtctttgaag gagagtgcac cacaagcacc 1620
tttctttggg gtagattttt ctctgggtct agaggggacag ctcaggcttg ggactgggcc 1680
tcagaaccta cgacagaccg tgagagcaga cccaccttat ccatctggtg ccagctcccc 1740
aggtcagcta cagcgacccc cggacttcat agagtacaat ccacagtaat agcacacagc 1800
tctgtacct tctagctcca tgcctatcta tctgcctacc tttcacaaaa taattcttag 1860
caaccctgct acagccaatg attctaatac gttctgttct attgcatgtt ataaaatgct 1920
ggtcacgata cactaaattg atgtctctac ctgctaattg ttttaatact gcagattgaa 1980
atatactgga gaaataaaga gagtgggagt agggacactt tctcccagtg cccacaccgc 2040
ccctcgttac ccgcataggt caactgaaag atacagagag ggaagctttg atgggggggtt 2100
cagagttcaa aggaagaaat gatggcacct gcactccctg ccccagagg caggacacag 2160
ccagccctcc tgtgacagca ctctggcag ctcttgttg gcctgcagcc ctcagggggc 2220
ttagttgcca ttgactcacc cactcctaag gccaccacat caaatctga ggcttactgc 2280
cctgtccac ctgcctctgt ctttcttaaa acagctaaat gcaacaatag caggaattag 2340
cttgtttttg aggttgga tgaccagttc aaggtgactc ttattttctt aagcagtgtc 2400
tgcaggacat aaatgtgatg acacttgccc tcctttctt atcgctggg acagacttta 2460
caaacagacc tgggagaagt cccctaagg gctgcattta tccccatctc cctaggggtg 2520
atcagcattg tgacagctgg gcagagcagt ggtgaactgc accatgtcc ctgctcacat 2580
ctcctaagat ctcagaattg cctgaggttc tagcgtgggc tccttctctc cagatgatgc 2640
catccccacc cccctcattt ccacacagca tctgaggcat cctgcactaa aagatatatg 2700
tacagcaaaa c 2711

<210> 833

<211> 3245

<212> DNA

<213> Homo sapiens

<400> 833

ggaatccaac aagggcaa	aat caatgttgga	gttccaggag	ctaatgacag	tttttcaact	60	
gctacactgg aatggcagcc	ttaaggccat	gagggaacga	caatgctctc	ggcaggaggt	120	
gttggctcat tattcgcacc	gggccctgga	tgatgatatt	cgccaccaa	atggttggga	180	
ctgggtgagc cgggagcaga	gtgtgccggg	ggcactgtct	agagagctgg	cctctactga	240	
gcgggagctg gatgaagccc	gactggcagg	caaggagctg	cgcttccaca	aggagaagaa	300	
agatattctt gtgctggctg	ctgggcagtt	gggcaatatg	cattcttcca	actgctaggc	360	
atccaccac ataactcccc	aggctttcca	cagccttttt	ttatgtctcc	tttctaaaat	420	
ttaggatgat tttttgtaca	tacttttcca	tttttatact	ttaaaaata	tatatgtgta	480	
taaattctac acctagattc	ctatttgcta	agagatccct	tttcttacta	ccagtttttg	540	
gatgtagttt tatttgaaac	atcttcagtc	cactttacaa	caaagagcag	cttgtctttg	600	
cagctttggt agctcttaaa	cttccagatt	aactgtgtag	ccatttcagt	agcactaaaa	660	
gattaactct agtgttcatg	tgctcttctt	ttcaaatact	aggtaacttg	aataaggatt	720	
atgtgcccc	cccttactct	cattcctgct	tcctcttgga	ctcaaacagg	gtatgagtat	780
gaagattttg	ccttttagttc	ctgaactgaa	cctgcttgct	atccctttcc	tccccaccac	840
taccttattc	cttctctgcc	tccaaattgc	cactttgttt	tgaggcttcc	ttccctacct	900
tattattctg	aaggaagtag	agatcttgct	tctgaaaccc	ctcctaagaa	actgcccagg	960
gacaagataa	attacaaaca	attcatggga	gtttactacc	taagttgctt	ctagggcata	1020
tgtataccat	actagtagtc	tagatttctg	gatatactct	acagtagatg	ggggttatgg	1080
ttgaaactga	ttctctttca	gtattccctc	taaacatctc	ccctactccc	ccagcttagt	1140
taaaccctgc	gtttggacct	tcctgcctgc	agctattagt	agaaagtaaa	acatatttcc	1200
atatttccct	tcacctaaca	ttttattttt	tggaagcggt	atcagtccta	tttggttagt	1260

gagaaccatg ttccccttat tcccgctaag ttgctgctgt ttactacctt agattctcat 1320
ttgtttttctc tttctttcct ctccttccac attaattatt agaacataag ttgatcagga 1380
aaattaaatg agactttagt attttggcac ttcctaattg acaccttggg agactgcagg 1440
aagggaaaaga gaatcaatga tcagttattt gtgtgtgtgt gtggtttttt tttttttttg 1500
gaagacagag tctcacactt ttgcccaggc tggagtgcag tggcgtgatc tcggctcact 1560
gcaacctctg cctccagggt tcaagcgatt ctcttgccctc agcttcccga gtagctggga 1620
ttacaggcac acgccacaac gcctggctaa tttttatatt tttagtagag acagggtttc 1680
accatgttgg ccaggctgtt cttgaactcc tgacataagg taatccaccc gcctcagcct 1740
cccaaagtgc tgggattaca ggcgtgaggc actgagcctg gcctatttgt ggtttttttt 1800
ttggttttgt ttttgttttt gtttttgaga cggagtcttg ctctgtcgcc caggctagag 1860
tgcagtggcg cgatctcggc tcaactgcaac ctccgcctcc cagattcaca ccattctcct 1920
gcctcagcct cccgagtagc tgggattaca ggtgcccacc accacgcca gctaattttt 1980
tgtattttta gtagagacgg ggtttcacca tgtagccag gacggtctcc atctcctgac 2040
ctcgtgatcc acctgcctcg gcctcccaaa ctatttgtgt gttttttttt ttttttgaga 2100
cggagtctcg ctctgtcgcc caggctggag tgcagtggcg ctatctcggc tcaactgcaag 2160
ctccgcctcc cgggttcacg ccaactctct gcctcagcct ccttagtagc tgggactaca 2220
ggcgcccgc accatgcctg gctaattttt ttgtattttt agtagagacg gggtttcacc 2280
gtgtttgaca ggatggtctc gatttctga cttcgtgatc cgcccgctc ggcctcccaa 2340
agtgtgga ttacaggcgt gagccaccgc gcccggcact atttgtgttt ttaacaccat 2400
tctccccac ttctctcctg ggtgacataa gagagaaata acctgtagta cagcagctaa 2460
agtattctcc tttcagagaa tttttttgga ggtctctaata atatatttcc cccttgtctc 2520
tgtgatctct tatttatact atattattgt cccatgtact ttctaaactg agcttggaaac 2580
atttagtatt cctgcaattg gacttccac ttaacaatta tacagacttt gcttttagaa 2640
atagattagg ttccaaacag aaagtccaag tgtaacaaca acaataaaaa tagattatga 2700
aacaggctat aattggctct tttggatttg ataggggcaa gatgaaaggc aactttcttg 2760
cttttgaaat catgttgggt aagaggtaag gaatccagct acaattttat tagtgcttga 2820
aacgggcttc cttgaattct ccaggcccta tcattttttt ttcttactaa tcagaagaga 2880
gctggggtag aagcccatg tttgtattcc atgaaacacg tcgggttgga gtaaaggcaa 2940
aaacagctag acacaccagg tgtgtctgtt tgacatttat aagctggcac tcatcaacac 3000

tcctgtttct cctttctctg ggacgtgtgg attaaggggt gtgagttgtg ggaagaattg 3060
ccctcgtagc tcctggattt attatatttc tcaaatacca accagtaaga tcccaaataa 3120
cttgagaaaa attgtttcct gatctgtcca cttctgggtg caaagatttt actcatcttc 3180
ttagtacatt ctatgtattt tataatgtata attttataca attaaaaata gatttttgtc 3240
tagtg 3245

<210> 834

<211> 2906

<212> DNA

<213> Homo sapiens

<400> 834

gaggggttcg gcgacgcgga gggagggaga gtctgggccg cgcgggagcc gcagggcgcc 60
ctagccttcg cagaaacgat ggcggaggaa gaaggaccac ctgtagagct gcgccaaaga 120
aaaaagccaa agtcttcaga aaataaggaa tctgccaaag aagagaaaat cagtgcatt 180
ccaattcctg aaagagctcc aaaacatgta ttatttcaac gctttgcaa gattttcatt 240
ggctgtcttg cagcggttac tagtggtatg atgtatgctc tctacttate agcataccat 300
gaacggaaat tctggttttc caacaggcag gagcttgaac gggaaatcac gtttcagggt 360
gacagtgcc aattattact ctattataaa gatatgttaa aggcacctc atttgaaaga 420
ggtgtttacg aactgacaca caataacaaa actgtatctc tgaagactat aaatgcagtg 480
cagcaaatgt ctctgtatcc ggaacttatt gctagcattt tatatcaagc cactggtagc 540
aatgagatta ttgagccagt gtatttctat attggcattg tttttggatt gcaaggaata 600
tatgttactg ctttatttgt tacaagttgg cttatgagtg gaacatggct agcaggaatg 660
cttactgttg cgtggttcgt tattaacagg gtagatacaa caagaattga atactccatt 720
cctttaagag aaaactgggc actaccatat ttgcatgcc aaattgctgc acttacaggc 780
tatttaaaaa gcaacttaaa tacttatgga gagaggtttt gctacttggt gatgagtgtc 840
tcaacttaca catttatgat gatgtgggag tatagccact atctcctgtt tcttcaagca 900
atatctctat tcctgctaga taccttttca gtggagcaaa gtgacaaggt ttatgaagtt 960

tataaaatct acatattttc cctctttctg ggatattttac tacagtttga gaatccagct 1020
ttgttggtat ctcctttatt aagtttagta gcagccttaa tgcttgctaa gtgccttcag 1080
ctgaatgtga agaaaggaag tttttagct aaaataataa aagtgattaa tttttacttg 1140
gtgtgtactc tgacaataac attgaatatt ataatgaaga tgtttgtccc acacaaagaa 1200
aatgggcaca tgctgaaatt ccttgaagta aaatttggac taaatatgac caagaatttt 1260
acaatgaatt ggctcctctg tcaagaatcc ctgcaggcac catctcaaga ttttttctg 1320
cgattgacac agtcttcttt attacctttc tacattctag tgttaattat ttgttttctt 1380
tcgatgttgc aagttatttt taggaggatt aatggtaagt ccctgaagga aactgttact 1440
cttgaagatg gacgaattgg agaaagacca gaaataattt atcatgtaat tcacactatt 1500
ttattgggtt ctcttgcaat ggttatagaa ggcttgaagt acatctggat tccttatgtg 1560
tgcatgttag cagcatttgg tgtatgttct cccgaacttt ggatgacact tttcaagtgg 1620
cttcgattaa gaactgtaca cccaatattg ttggctctta ttctgagcat ggccgtgcct 1680
actataatag gtctcagctt atggaaagag ttttttccca gattaatgac agaattaatg 1740
gaactacagg aattctatga cccagataga gtggaactta tgacctggat aaaaaggcaa 1800
gctccagttg cagctgtgtt tgcagggagt ccacagttaa tgggtgcat taaattatgc 1860
actggatgga tggtgacaag tttgcctctt tacaatgatg atgatcttct caagagaaat 1920
gaaaatatct accaaatcta ttcaaagcga tctgctgagg atatttataa aatactgaca 1980
tcttacaag ctaattacct aattgtagag gatgctatct gcaatgaggt gggaccacg 2040
agaggctgta gggttaaaga tttattagac attgcaaag gccacatggt ttgtgaagaa 2100
ggtgacaagc taacctactc aaaatatggg cgattttgtc atgaggtcaa aattaactat 2160
tctccatag tgaattattt cactagagta tactggaaca gatcctactt tgtatataaa 2220
atcaacactg tgatattctt ccagtcttga aaaataacag agccttcatt tcaaagacta 2280
cctgaagtaa aatgcagttt tcttctacct actcgggtgc ttttgcagat cagagtatgg 2340
acatttgaaa tattgctgct tctttccccc ttctgctgtt aactggatcc agagtctgt 2400
gggaaataga agatcaagca ttactgtcct ttgattaaat gtgatatcta ccactctgca 2460
atattccaga cagggtgtctt ccttaccgtt acatgggtctt taacactttt actgattgca 2520
atattttccc cataaaatct tcattctatt ataatttga tcttgaattt gaatatgtgc 2580
aaggtcagat acattttctc aacataacat ttaataaata atgtgatata attatttaat 2640
agaaagaata attccgacct tcaagcaagt ttctgaaggt attttatgat gtaaaacaat 2700

gtaattgaaa agtcagcttc catattttgt aggggaaata gaacacccta ctttttatct 2760
agtgtgaaat atttaatcga atttttgttg atttatatta tgttacctgt gctgaattag 2820
gtttggtact tgtgttttgt ttgacatatt agtaagttgc ttttgcttct ttctgtcaac 2880
ttatttttta aataaaattg atctgg 2906

<210> 835

<211> 1894

<212> DNA

<213> Homo sapiens

<400> 835

agctctgagc tcgcggaggc gtggccggtg cgcggggccc gcggcgcgcg gggatggggg 60
tctcgggtgga tgtgcaccag gtgtacaagt accccttcga gcaggtggtc gccagctttc 120
tccgaaagta cccaacccc atggataaaa atgtcatctc agtaaaaatc atggaggaaa 180
aaagagatga atcaacaggg gtcacttaca gaaagaggat tgcaatctgt cagaacgtgg 240
ttccagaaat ttttaaggaag gtgagcattt tgaaagtacc taatatccaa ttagaagagg 300
agtcatggct caatcctcgg gaaagaaaca tggccatacg gagtcactgc cttacgtgga 360
cacagtatgc atccatgaag gaagagtctg tcttccggga aagtatggaa aacccaaatt 420
ggacagagtt cattcaaaga ggcaggattt caatcacagg ggttggattt ctcaactgtg 480
ttttagaaac ttttgccagc acattcttac gacagggagc ccagaaggta accatatttc 540
tgctttgaac caacattaat tttaaaaaac aataggagtt ccaatagggt tattgaataa 600
gactcatgag cagacataat gagaaaaaca tatagttaat aaacaaatat atgcaaaaat 660
aatcaacctc aaaattatta cataaattca aatcaaagta aaactaaagt ggcatttatg 720
gctcattaaa ttaaaaatat gccaatgaag agtatgtgaa aatttggagc atacttataa 780
tctaattaaa agaaataatc agaatgaata ataatgtata gtatgatgac aactatttaa 840
taaagataat gatagttaat atttattgag cacttactat gtactactga ctgctaaaag 900
aatttgtatt attaactcat tgaatcctca caaaccttg caggagctgt tattgttgtc 960
ctaattattat ggatgaggaa aatacagaga cccaattgt ccactcttat agttttcaaa 1020

ctctattctc aagggagctt aggcctccat gaaagtgatt cagaagccat gttggagttc 1080
 taaggctcctg tgtgctctat tttaagtaga gcttttccat tttaatctgt cctctatggc 1140
 attccatata acatttataat cttctatttt ctttccttaa tagcattatt tttaaaactt 1200
 catgtcaaaa cccattgctt atgcattttt atgtgcttat tgcagtgtc agtataaagc 1260
 agttgtcctt aagtgtttta ttattgttat taattacgat gataattata ctcatattt 1320
 tccagatttt actcaggact ttttgataaa gtttacctca ttttgttttg tgggatagaa 1380
 ttaaccgctg gtgtaaagaa ccattgttat gaccctcaga gacttcctgg caatggaccc 1440
 ttgttttcat ttttgcatgt ctaggttcaa ggatgaacct gtactaggag gtgttcatct 1500
 gggaggctga gggcggtgaa tgaatattca gtaccgttct gtacaccata gacatactgt 1560
 tgtgattgat gatgtgttct tgctccagtt gaggtgggtc ctggcacata ttcagactgg 1620
 tccagcctct ttaaacctgg acttgaaggg agtagttgaa cttccggaag atcttatgtc 1680
 acctttactc actcagacat tattgcaaat ttttctgcta tattgcaatt tatgcgtttg 1740
 taaaaactcc catgttctgc agcattgcat tctaaaaata gtggaaactga tgagaaaagt 1800
 aatttcattg ccatgtttct tactgagttg actttttgtg catcctttaa actctgtatg 1860
 atgataatag taataataaa ttgaattttt ttat 1894

<210> 836

<211> 3254

<212> DNA

<213> Homo sapiens

<400> 836

gcactcggct cggcccggcc cgggccgcag catggccgag ccgctactca ggaaaacctt 60
 ctcccgcctg cggggccggg agaaacttcc ccggaaaaag tcggacgcca aggagcgcgg 120
 ccacccagcc cagcgcgccag agcccagccc tccagagcca gagccccagg ctcccgaagg 180
 gtcccaggcc ggagcagagg ggccctccag ccccagggca tcaaggagcc ctgcacgggg 240
 agcctacctg caaagcctgg agcccagtag ccgccgatgg gtgctgggtg gggccaagcc 300
 agctgaggac acctctttag ggcctggggg acctggcact ggggagcccg ccggcgagat 360

ctggtacaac cccatccctg aggaagaccc cagacctcca gcacctgagc ccccgggggcc 420
acagcctggc tcagctgagt cagagggcct ggccccccaa ggtgcagccc ccgccagccc 480
cccaacaaaa gcctcccgca ccaagtcccc gggccccgcc aggcgcctct ccataaagat 540
gaagaagctg ccggaactgc ggcgcgcct gagcctgcga ggcccccgagg ctggcagggga 600
gcgcgagagg gctgcccctg cgggctccgt catcagccgc taccacctgg acagcagcgt 660
gggggggcccc gggccggcag cagggcctgg gggcacccgg agcccgaggg ccggttacct 720
cagcgacggg gactcaccgg agcgcccagc tgggccccca tcaccacct ccttcgggcc 780
ctacgaggtg ggtcccgag cccgggcacc cccggccgca ctctggggcc gcctcagcct 840
gcacctgtac ggtctcgggg ggctgcggcc agcgccgggg gccacccccca gggacctctg 900
ctgcctactg caagtggatg gggaggccag ggcccgaaca gggccactgc gagggggggcc 960
ggacttcctg cggctggacc acacctcca cctggagctg gaggcgccca ggctcctgcg 1020
cgccctggtg cttgcgtggg accctggcgt gagaaggcac cggccctgtg ccaggggcac 1080
cgtgctgctg cccacggtct tccgagggtg ccaggcccaa cagctggccg tgcgcctgga 1140
gcctcagggg ctgctgtatg ccaagctgac cctgtcggag cagcaggaag cccctgccac 1200
agctgagccc cgcgtctttg ggctgcccct gccactgctg gtggagcggg agcgggcccc 1260
cggccaggtg cccctcatca tccagaagtg cgttgggcag atcgagcgcc gagggctgcg 1320
ggtagtggga ctgtaccgtc tttgtggctc agcggcagtg aagaaagagc ttcgggatgc 1380
ctttgagcgg gacagtgcag cggctctgcct atctgaggac ctgtaccccg atatcaatgt 1440
catcactggc atcctcaagg attatcttcg agagttgcc accccactca tcaccaacc 1500
cctgtataag gtggtactgg aggccatggc ccgggacccc ccaaacagag ttccccccac 1560
cactgagggc acccgagggc tcctcagctg cctgccagat gtggaaaggg ccacgctgac 1620
gcttctctg gaccacctgc gcctcgtctc ctcttccat gcctacaacc gcatgacccc 1680
acagaacttg gccgtgtgct tcgggcctgt gctgctgccg gcacgccagg cgcccacaag 1740
gcctcgtgcc cgcagctccg gccaggcct tgccagtga gtggacttca agcaccacat 1800
cgaggtgctg cactacctgc tgcagtcttg gccagatccc cgcctgcccc gacaatctcc 1860
agatgtcgcg ccttacttgc gacccaaacg acagccacct ctgcacctgc cgttggcaga 1920
ccccgaagtg gtgactcggc cccgcggtcg aggaggcccc gaaagcccc cgagcaaccg 1980
ctacgccggc gactggagcg tttgcgggcg ggacttcctg ccttgtgggc gggatttcct 2040
gtccggggcca gactacgacc acgtgacggg cagtgcagc gaggacgagg acgaggaggt 2100

cggcgagccg aggggtcaccg gtagcttcga agacgacttc gatgcgccct tcaacccgca 2160
 cctgaatctc aaagacttcg acgccctcat cctggatctg gagagagagc tctccaagca 2220
 aatcaacgtg tgcctctgag ccagatgacg ggggtgggacc ccggttagta aggaccgggc 2280
 gcccagtggc taaggcggtg ccctggtgac caaggagagc cagacctgtt gctcaggccg 2340
 agctcctggt tgccagcgag ttaccacggg accagtcgagc tgtatggctg agactcattc 2400
 ccagtttcca gggcccggta tttggacact agttgccaag tctggggcct ggggatttta 2460
 gggaccagcg gttgtgacca tctttcctga gcaccaaggg cttccccctt tgttgccaaa 2520
 aaggtagttc tcgcgcttgc taggctggcc tctcttgctt ccccttggcc ggggcaacac 2580
 cagttactgt gagcatcacc ctggtgtggt gagtcacctc tagtcggccc tcttgctgct 2640
 gccaaccaaa tcagtattag ctttgagcac tgcactgttt ctccctccct tggacgacac 2700
 aaagactagc atgaggcact ctttgtgggg ggcagcccct atcctgggtt ccagcatgga 2760
 cacaggggta gcctggggct tatagagaaa cagctgggtt cccctaccct ttcccgggga 2820
 agacccacg attggcctct agtcagcaaa tggagataac agagtctggc ctttccaatc 2880
 cccatctcct tgccccccc ttgccccccc ccccgaaaaa aattgagcac ttaaaccctt 2940
 cccttttggg gggggccccc tgaagcgta ggctgggggc agtctggtac ggaacatatt 3000
 tattgcctcc atgcatgtgt gtgtgtgtct gtgaggactg gtgtgcgtgg acacgtctga 3060
 agcaggcgtg tggggctctt tcagggacca cagaggaggg agcagtttgc agtgcccagc 3120
 caccctgaaa tccccaataa tgggtgcctca gtgggcccga gagttccagt gggagagtac 3180
 ggttcctcc tgtctccctc ttcttttccg caccctccatc tttgtggata ataaataaat 3240
 atgcacaggt tctg 3254

<210> 837

<211> 2364

<212> DNA

<213> Homo sapiens

<400> 837

ttctaagttc aaattaatgt tgggtgctttt cctccttttt cttggcagat ggtttgctag 60

gtgagtgtgt cctcgattct ttaaatacagg gtccccagtc cccaggccac agatcgttac 120
cagtccatgg cctgttagga accaggccac acagtaggag gtgagcagcc agccagttag 180
cattactgtg tgagctcggc cccctgccag agcattactg tgagctccgc cccctgccag 240
agcattactg tgtgagctcc gccccctgcc agagcattac tgtgagctgc accccctgcc 300
agagcattac tgtgtgagct ccgccccgtc agagcattac tgtgtgagct ccgccccgtc 360
agagcattac tgtgtgagct ccgccccgtc agagcattac tgtgtgagct ccgccccctg 420
tcagagcatt actgtgtgag ctccgcccc tgtcagagca ttactgtgtg cgctccgccc 480
cctgccagag cattactgtg agctccaccc cctgccagag cattactgtg tgagctccgc 540
cccctgtcag agcattactg tgtgagctcc gccccctgtca gagcattact gtgagctccg 600
ccccctgtca gagcattact gtgtgagctc cgccccctgt cagagcatta ctgtgtgagc 660
tccgccccct gtcagagcat tactgtgtga gctccgcccc ctgccagagc attactgtgt 720
gagctccgtc ccctgccaga gcattactgt gtgagctccg tcccctgcca gagcattact 780
gtgagctctg cccccctgtca tcattactgt gtgagctccg ccccatcat cattactgtg 840
tgagctccgc ccccgtcaga gcattactgt gagctccgcc ccctgccaga gcattactgt 900
gtgagctccg cccccctgcc agagcattac tgtgagctct gccccctgtc atcaatactg 960
tgtgagctcc gccccgtca tcattactgt gtgagctccg cccccgtcag agcattactg 1020
tgagctctgc cccctgccag agcattactg tgtgagctcc gccccgtca tatcattact 1080
gtgtgagctc cgccccctgt catatcatta ctgtgtgagc tccgccccct gtcatatcat 1140
tgctgtgtga gctccgcccc ctgtcatatc attgctgtgt gagccccgcc tcctgtcaga 1200
tcagtgggtg cattagattc tcataggagt ggaatcctgt cgtgaactgc gcatgcgaag 1260
gatctagggt atgccccgt tatgagaatc taatactgat gatctgagat ggaaccgttt 1320
cgtctccaaa ccatccccac acttgtcagt ggaaaaagt tcttccgtga aaccagtccc 1380
tggtgccaaa aaggttaggg actgccggtt taaataacca aatgctaaaa gaactggcat 1440
agaagtaaat gggctgctgc tttattttta ggctgttctt tttagagaac aatgacagtt 1500
atttccaagt ttgtcattag aaaataatat taggttgggtg caaaagtaat tgcgggtttt 1560
gctattgctt tcaatggtaa aagccacgat tacttttgca ccaacttaat atgataaatt 1620
tgttccttaa agtgtatttt tgataagaaa gcccttttgt tttccttct gttaattttt 1680
tgtttttttc ttggtagaga cagagttttg ccatgctgcc caggctggag tgcagtgggtg 1740
tgatctcggc tcaactgcag ctccacctcc tgggctccag cagtcctccc acctcaacct 1800

ccctaagagc tgagactaca ggtgtgagcc accatgcctg gctaattttt agagacaggg 1860
 tttcaccctc ttgcccaggc tggteccaaa ctcttgggct caagcagtcc tcctgcctca 1920
 gcctcccaga gtattgggat tatagggtgtg agccactgcc agaaaaacgt ttcctaagac 1980
 aaggcaggtc ttacattata tttaaatttt ttttaatgat gtcttttttg gcagtgcaca 2040
 gccagagaac aacacatcac acacaagaaa cagttgtgct catgtgatgg gggcctcagc 2100
 actaggaagg agtggactgt tggcgcacgc agcagcttga ataaatctga aagtcactac 2160
 gctgcgtaag agaagccaaa taaagcgcac gctgtgtaca gaggggtgtcg agaatgcctc 2220
 ctacgtgacg gaaagcagat ccgtgggttc ctgcagactg gcaggagcag attccaaagg 2280
 cacaggaaga agcttgagg tagaatgtgt tcattacctt ctgcgcatta taccacaaaa 2340
 aagctgggaa taaaaatgct aacc 2364

<210> 838

<211> 2398

<212> DNA

<213> Homo sapiens

<400> 838

attttgctcg agggcatggc ctaagccggt cagctaaggc catgttaata cggggctgtc 60
 ccatctctct gcggggcgcg acagctggaa gagccgaacg gataagagaa gaggaggtga 120
 gaggagctgt acaccacaag aggcactgag ggactcagga taacgggatg aagccgtcag 180
 tgccccaga aacgaagcgg ccccgacga atttctgagt caccgtcgcg agaaagcggg 240
 ctgagccgcc attttgaagc ctggcaaacc gaagcaagaa atgctgccgt gttggatctt 300
 tgccagcctt cgtgccgaat gggagcaggt tggagggagg gagagccaat atacactatg 360
 ggctgattaa gcccggttgg ctgccatgtt gttaacgagc accgatttcc tctacttttg 420
 tcgaagaagt ttattgtggg tcagggacgt caggtcgctt gccttcgttt actgtggtca 480
 tgattgagca tatgaggacg gccattattg ttgggggcaa atggaaatgc tctaggcggg 540
 gccatttttc ttaggggcaa gctgtcgta cccttgcga ctggttcgga tgaagcccct 600
 gtggccgcca tcttgatctc gggcgcccc gataaggag gcggagtgtg cggagaggag 660

gcggggcaac tgcgcggacg tgacgcaagg cgccgccatg tcttttgagg gcggtgacgg 720
cgccggggccg gccatgctgg ctacggggcac ggcgcggatg gcgtcggggc gccccgagga 780
gctgtgggag gccgtggtgg gggccgctga gcgcttccgg gcccggactg gcacggagct 840
ggtgctgctg accgcggccc cgccgccacc accccgcccg ggcccctgtg cctatgctgc 900
ccatggtcga ggagccctgg cggaggcagc gcgccgttgc ctccacgaca tcgactggc 960
ccacagggct gccactgctg ctcggcctcc tgcgccccca ccagcaccac agccaccag 1020
tcccacaccc agcccacccc ggcctaccct ggccagagag gacaacgagg aggacgagga 1080
tgagcccaca gagacagaga cctccgggga gcagctgggc attagtata atggagggct 1140
ctttgtgatg gatgaggacg ccaccctcca ggaccttccc cctttctgtg agtcagaccc 1200
cgagagtaca gatgatggca gcctgagcga ggagaccccc gccggcccc ccacctgctc 1260
agtgcxxxx gcctcagccc taccacaca gcagtacgcc aagtccttgc ctgtgtctgt 1320
gcccgtctgg ggcttcaagg agaagaggac agaggcgcg tcatcagatg aggagaatgg 1380
gccgcccctt tcgcccgacc tggaccgcat cgcgcgagc atgcgcgcgc tgggtgctgcg 1440
agaggccgag gacaccaggg tcttcgggga cctgccacgg ccgcggtta acaccagcga 1500
cttcagaag ctgaagcga aatattgaag tccagggagg gagcgcccc ggccgcgtcc 1560
gccccgtccc aactacgcc cccgccccac tcccggggcc tgctaacttg aggccgatcc 1620
gggaccggcc tccttgctc tccattccc aagattgtcc cgctctgcc aatccccgcc 1680
gtccttcag cccacgacct gccgcgccga ggagcggcat ctgtcccgtt tccgattgg 1740
gtctgtctc tctctccgcc tagcgacaga ttccttctat taagggattg gctcgtgag 1800
ttctaagctc taaatgggtc aactcctttg tttccgcct agcgacaagg gatttgctcg 1860
cacggcattg gctccatccc ctagtcgctg gacagctctt ttttgattg gctcaaatcc 1920
tgtaaagggc ttgaccagtc tctacatagt caccgtccgc ttttctgag ttctccctcc 1980
caattgttcc agcttcctgg gggcgtggcc aagccctcct cttcccagaa ttggcccggg 2040
gccttcaatt tacgttcttt aactacggg gactggggtc gtctttgccc acgtcccagc 2100
aacttgttcc ctgacccct cagggatggc cccaaactgt ccctgcctct ggcacccct 2160
ttcattgatt ccattcatcc ccacaacagc ctgccaatcg aagcccgtcc ctgcatccag 2220
gatggtacca gctcccgcc ctcgcccccc acctccacag gtgccttaaa gggccctcgt 2280
ccaccaagg tggggggcag gggccctcac tctccggccc tgggtgtggg gagagagtga 2340
ggggttgggg gatcggcagt tgggaggggc gctctgagat taaagagttt tacctctg 2398

<210> 839

<211> 1828

<212> DNA

<213> Homo sapiens

<400> 839

aaaggcaagg aaggattggt atatgattgc ctgtaataaa taaattgcgt gattattgga	60
gtacattggg gtaaaagtaa agaacagagg agtattgagg agcttgaaag ggaacattca	120
aactaaagcc aagcctgaag ataacttgaa tcagttgtaa aagtgtgttg gcaatgtccg	180
aaattgaatg aaaaacatct ggcttataag aaatgttaaa gaactacat cttagtaaa	240
attggtgttt ttgttathtt taaggtgaat gccaatgcaa aaggtatgtt tttctacttc	300
acattggttt tcttttctg tttacatctg cacttgtttt ttgctgagag ccagaggaaa	360
agataattag actttgtctc ttccacccat gaaatccccc agtaccagg gcttcttctg	420
aactactgcc gatgtgatgt cactttgtat ctggaaaatc actttggggg ccatthactg	480
ttatthtgtt gcctacaaaa acagccagggt gaaagctaaa tcttgtgtga gagthtgcag	540
aggthtttct atacaataaa gtagtatagc aactagcca aatccatcca aaaggacctt	600
thttthtaga agtagacttg aattcacaaa acagtcttga catgggtagc tggtgaaaaa	660
ccctctggag agcaagtgga gccagtcctc attggctgac agtgccacct ggagctggtc	720
tctgggggtg tcggttgtht attcctgagg aagactagct gctgctgctg ctgctgctgc	780
aaactgtact gtacacatca tggctgctgg acacgaagga ggaggtgaga gaagthtcat	840
gctaccgaaa tagagggtgt tgggtaccat gcccctggcc tgagagccag ggtthtaacc	900
tgctcagta gactctagtt tgaaatgaca ccaaaattcc tcagccccta ctgagcaatt	960
ggtthtggth tccaaatgac ttctgcattt gtaaagataa cagagtgggt gggthcaaagt	1020
ttatcttgth tthtagatctc ttcaagactg cthtaagcaa aacaaaaatc cthtgggaacc	1080
tatcgthtga gcctgtaaag ttgtthttagc agthtgcata aatgcatatg thtgtaaact	1140
agaacactgt cgagthtata ctcatthtagc tgcaatgtgg gacaatgaaa aatgctthtac	1200
aggcctggag tatcattact tatgggtatct cctgctthta aatctcaagc gatatctatc	1260

tggttaaatt ccattttagg agattgagat gcagaacgtt aatgttcatt acctcctcct 1320
 accccaagag aaatggattc agacatgtct tgtctcaaca agaaattgat ttttttttaa 1380
 actatctcat tctgttgcca aatatcacag aagtaatgag gagtttagtt acatttggtc 1440
 gttgtgctct gaaagagcca ggtttggaat ttgtgggggt gatctaggaa gaaggttcca 1500
 aagaagcaga ggcatttgtc aagttaccta ccctatatcc agcatcctcc tcatgagctt 1560
 cagtagctgc tctttgcca cgcctgtatc ctacgtttgc tatttgggca aaccattact 1620
 tcagttatth aacttcctt tttttttaac ttcacctttg actatgaaca agtaacggta 1680
 acattccttt tgtgtattca ataatgcagt tagtttacct ttttcagaat attttgaaca 1740
 aagatctttg tctctttctg ctggaatgcg cacacagtga acgtttgtta gaactacaca 1800
 caataaagac actgttttcc ttttcttg 1828

<210> 840

<211> 2124

<212> DNA

<213> Homo sapiens

<400> 840

gagcatgcgc ctgggacttg caatgatgaa acagggccat tggcaaagct ggggtaccag 60
 tcaccagacc acgctctagg gtggtagcca agaagacgga ccccgagtgg gaggcagaga 120
 gacaagaggt ggatgaagca gagcaagcgt gagcatggtg aagagaagac ggagccccgc 180
 gctgggagag gaacgcttca gtccgagttc cattctgcac ccaaggctcc ccttggtcct 240
 cctgggaacc agggtgcccc ttagtggttg tggcccagga gaaccgacc aaggcaggag 300
 cgccccctcc tggaagagcc tcgcttcaac gcatcatcat tcccggccgg cagcaggggc 360
 gacgccagca aggcctgcga ctacagagcca gcttggcccc ttcgccccgc cccttcccgg 420
 tgtccgcccc gcccctttcc cgggtgtccgc cccgctcct tcccgggtgtc cgccccgccc 480
 ccttcctgt gtccgccccg cccccttccc tgtgtccgcc ctgcccgtt cactgtggtc 540
 ctgcctctgg gtggtgccgg ggcgggggggt gggagcccgg ggcccgcgca ggcggagatg 600
 tcgccaatg ggaagggtcg gtcgggaagg ggggtgggcgc aggcgggttg gcgggaagaa 660

cgctggaggt tgattggcgg tcttgccggc cagtgaagcc agggcatggg cggggcgcg 720
 ctcggagcgc gaaacatggc ggggcaggac gctggctgcg gccgtggcgg cgacgactac 780
 tcagaggacg agggcgacag cagcgtgtcc agggcggtg tggaggtgtt cgggaagctg 840
 aaggaccta actgccccctt cctcgagggt ctgtatatca cagagccaaa gacaattcag 900
 gaactgctgt gcagcccctc agagtaccgc ttggagatcc tagagtggat gtgtaccga 960
 aatgacgaag ctgggccacg agctgatgct gtgtgcgcca gatgaccagg agctcctcaa 1020
 gcccttgttg cccgagagtt tctcccgagg tccctcatct accctgcgag atttattcac 1080
 gtgaccaatg gcctatgaca cagccccagg aggtcctgag aacatgtgca caagggtgt 1140
 gcctgcgccc agaagcagct acatttcag gaccagtgc tcgataccat ccggagcctg 1200
 accattgggt gctccagttg ctcgagcctg atggagcact tcgaggacac cagggagaag 1260
 aacgaggcct tgctggggga gctcttctct agccccacc tgcagatgct cctgaatcca 1320
 gagtgcgacc cgtggcccct ggacatgcag cccctcctca acaagcagag tgatgactgg 1380
 cagtgggcca gtgcctctgc caagtccgag gaggaggaga agctggcgga gcttgccagg 1440
 cagctgcagg agagtgtgc caagttgcac gcgcttagaa cggagtctac gacgacgagc 1500
 tgggcgagtg ctgccagcgc ccaggccctg acctccacc gtgcggcccc atcatccagg 1560
 ccacgcacca gaatctgact tcctacagcc aaatccccag aggccaacct aaaaagccgg 1620
 ctttagttac gatgactaca gttccacgt gcgcaactct gcccttggt caaggattcc 1680
 gtgatgttca ttttggtttt ctaagcgaga ggctccgagc cttccaacct ctgactggct 1740
 ggtcctgtga gaccctcga tcagggatgc tgctgcaagt ggtcatggca gttgctgaca 1800
 cctctgcgaa ggccgtggag accgtgaaga agcagcaagg cgagcagatc tgctggggtg 1860
 gcagcagctc cgtcatgagt ctagctacca agatgaatga actaatggag aaatagaaag 1920
 tcttcagtga tggcctacgc caaagcacag gatggggcgg gcaggaagcc ctctcccaag 1980
 atcgagttgg ccgaggatgg atgattgtgg cagcagaagc cgttgcagcc ccacgttgtg 2040
 ctctaggcag ggacctttgg cccctttggg gagggagaga cagacgggcg gtttgacttg 2100
 gacacaaaga aagccttggt ttct 2124

<210> 841

<211> 2253

<212> DNA

<213> Homo sapiens

<400> 841

```
gaaaaataga aacaaagttg gtcacaaatc acattagctt tgcccgaagt ttttccccac 60
actcttcttt agcatgctat tatggggaaa gtgaccactc ctgggagcgg ggggtggtcgg 120
ggcgggtttg tggcggggaa gcggctgtaa cttctacgtg accatggtac ctgttgaaaa 180
caccgagggc cccagtctgc tgaaccagaa agggacagcc gtggagacgg agggcagcgg 240
cagccggcat cctccctggg cgagaggctg cggcatgttt accttcctgt catctgtcac 300
tgctgctgtc agtggcctcc tggtgggtta tgaacttggg atcatctctg gggctcttct 360
tcagatcaaa accttattag ccctgagctg ccatgagcag gaaatggttg tgagctccct 420
cgtcattgga gccctccttg ctcactcac cggaggggtc ctgatagaca gatatggaag 480
aaggacagca atcatcttgt catcctgcct gcttggactc ggaagcttag tcttgatcct 540
cagtttatcc tacacggttc ttatagtggg acgcattgcc ataggggtct ccatctccct 600
ctcttccatt gccacttggtg ttacatcgc agagattgct cctcaacaca gaagaggcct 660
tcttgtgtca ctgaatgagc tgatgattgt catcggcatt ctttctgcct atatttcaaa 720
ttacgcattt gccaatgttt tccatggctg gaagtacatg tttggtcttg tgattccctt 780
gggagttttg caagcaattg caatgtattt tcttcctcca agccctcggg ttctgggtgat 840
gaaaggacaa gagggagctg ctagcaaggt tcttgggaagg ttaagagcac tctcagatac 900
aactgaggaa ctcactgtga tcaaatectc cctgaaagat gaatatcagt acagtttttg 960
ggatctgttt cgttcaaaag acaacatgcg gacccgaata atgataggac taacactagt 1020
attttttgta caaatcactg gccaaccaaa catattgttc tatgcatcaa ctgttttgaa 1080
gtcagttgga tttcaaagca atgaggcagc tagcctcgcc tccactgggg ttggagtcgt 1140
caaggtcatt agcaccatcc ctgccactct tcttgtagac catgtcggca gcaaaacatt 1200
cctctgcatt ggctcctctg tgatggcagc ttcgttgggtg accatgggca tcgtaaactt 1260
caacatccac atgaacttca cccatatctg cagaagccac aattctatca accagtcctt 1320
ggatgagtct gtgatttatg gaccaggaaa cctgtcaacc aacaacaata ctctcagaga 1380
ccacttcaaa gggatttctt cccatagcag aagctcactc atgcccctga gaaatgatgt 1440
ggataagaga ggggagacga cctcagcatc cttgctaaat gctggattaa gccacactga 1500
```

ataccagata gtcacagacc ctggggacgt cccagctttt ttgaaatggc tgtccttagc 1560
 cagcttgctt gtttatgttg ctgctttttc aattgggtcta ggaccaatgc cctgggtggt 1620
 gctcagcgag atctttcctg gtgggatcag aggacgagcc atggctttta cttctagcat 1680
 gaactggggc atcaatctcc tcattctcgt gacatttttg actgtaactg atcttatttg 1740
 cctgccatgg gtgtgcttta tatatacaat catgagtcta gcatccctgc tttttgttgt 1800
 tatgtttata cctgagacaa agggatgctc tttggaacaa atatcaatgg agctagcaaa 1860
 agtgaactat gtgaaaaaca acatttgttt tatgagtcac caccaagaag aattagtggc 1920
 aaaacagcct caaaaaagaa aaccccagga gcagctcttg gagtgttaaca agctgtgtgg 1980
 taggggcaa tccaggcagc tttctccaga gacctaatgg cctcaacacc ttctgaacgt 2040
 ggatagtggc agaacactta ggagggtgtc tttggaccaa tgcatagttg cgactcctgt 2100
 gctctctttt cagtgtcatg gaactgggtt tgaagagaca ctctgaaatg ataaagacag 2160
 cctttaatcc cctcctccc cagaaggaac ctcaaaaggt agatgaggta caaggctcta 2220
 agtgatctct tttctgagc aggatatcag gtt 2253

<210> 842

<211> 2924

<212> DNA

<213> Homo sapiens

<400> 842

attccccgg ttagcccc ccccttact ttccttctcg tcctctgtgt ttctcctctc 60
 ttctttcttc cttccccct ctagcattgc taccttctct cctacacgca cgcaggcata 120
 taaacgtagg tttttgatgc tcctctgcct gttgaccccg ctattttcat gtttccaaca 180
 ggtttttctt cccccagtcc ctcagctgct gctgctgctc aggaggctcag atctgccact 240
 gatggtaata ccagcaccac tccgcccacc tctgccaaga agagaaagtt aaacagcagc 300
 agcagtagca gcagtaacag gagtaacgag agagaagact ttgattccac ctcttctctc 360
 tcttccactc ctcttttaca acccagggat tcggcatccc ctccaacctc gtccttctgc 420
 ctggggggttt cagtggctgc ttccagccac gtaccgatac agaagaagct gcgttttgaa 480

gacaccctgg agttttagg gtttgatgcg aagatggctg aggaatcctc ctccctcccc 540
tcctcatctt caccaactgc tgcaacatct cagcagcagc aacttaaaaa taagagtata 600
ttaatctctt ctgtggcttc ggtgcatcat gcaaacggcc tagccaaatc ttctaccacc 660
gtctctagct ttgctaacag caaacctggc tctgctaaga agttagtgat caagaacttt 720
aaagataagc ctaaattacc agaaaactac acagatgaaa cctggcaaaa actgaaagaa 780
gcagtggaag ctattcagaa tagtacttca attaagtaca atttagaaga actctaccag 840
gctgtagaaa atctctgttc ttacaagatt tctgcaaact tgtacaaaca gctgagacag 900
atctgcggag atcacatcaa agcacagatt catcaattca gagaggattc attggatagc 960
gttctttttt taaagaagat tgatagatgc tggcaaaacc attgcagaca aatgatcatg 1020
atcaggagca tttttttgtt tctggataga acttacgttc ttcagaattc aatgctaccc 1080
tccatttggg acatgggact ggagttatct agggctcata ttataagtga tcagaaagtg 1140
cagaataaga caattgatgg cattcttctc ttgattgaga gggaaaggaa tggatgaagca 1200
attgatagaa gtttacttcg aagcctttta agcatgctgt ctgatttgca aatttatcaa 1260
gattcttttg aacaacgatt tttggaagaa actaaccggc tctatgcagc tgaaggccaa 1320
aaattaatgc aagaaagaga ggttcctgaa tatctacatc atgttaacaa acgtctagaa 1380
gaagaagcag acagacttat tacttactta gatcagacca cccagaagtc attaatgtgt 1440
actgtagaaa aacaacttct aggtgaacac ttaacagcaa ttcttcagaa aggttttaat 1500
aacctccttg atgaaaaccg aattcaagat ttgtctcttc tgtatcagct cttcagtaga 1560
gttcgaggtg gagttcaggt tcttttgcag cagtggatcg aatatatcaa ggcatttggc 1620
agcactattg taattaatcc tgaaaaagat aaaaccatgg ttcaagaatt gctggatttt 1680
aaagataagg ttgaccatat aattgatatc tgctttctga agaagagaa atttatcaat 1740
gccatgaaag aagcatttga aacgttcatt aacaaaagac caaataaacc agctgaactt 1800
atagctaagt atgtagattc aaaacttcgt gcaggcaaca aagaagctac agatgaagaa 1860
cttgagaaaa tggttgataa aattatgatc atatttagat ttatctatgg caaggatgtt 1920
tttgaggcct tctataagaa agatttagcc aagcgcctgt tagtcggaaa gagtgcattc 1980
gtagatgctg aaaaatcaat gctgtccaaa cttaaacatg aatgcggagc tgctttcacc 2040
agcaaacttg aaggaatgtt taaagacatg gaactttcta aagacatcat gattcagttc 2100
aaacagtata tgcagaatca gaatgttccg ggaaatattg agttaactgt gaatatcctg 2160
acaatgggct attggccgac atatgtgcct atggaagtcc atttaccacc agagatggta 2220

aaacttcagg agattttcaa gacattttac ctaggcaaac atagtggcag gaaacttcag 2280
 tggcagtcaa ccctaggaca ctgtgtgtta aaagcagaat ttaaagaggg taaaaaggaa 2340
 ctccaggtct ctctttttca aacactgggtg ctgctaattgt ttaatgaggg agaggagttc 2400
 agtttagaag agatcaagca ggcaactgga atagaggatg gagagttaag gagaacactg 2460
 cagtcattag cctgtggcaa agctagagtt ctggcgaaaa atccaaaggg caaagacatt 2520
 gaagatgggtg acaagttcat ttgtaatgat gatttcaaac ataaactttt caggataaag 2580
 atcaatcaaa tccagatgaa agaaacgggtt gaagaacaag caagcactac agaaagagta 2640
 tttcaagaca gacagtatca aattgatgct gcaattgttc gaattatgaa gatgagaaag 2700
 acacttagcc acaatctcct tgtttcagaa gtgtacaacc agttgaaatt tccagtaaag 2760
 cctgctgatac ttaagaagag aatagaatct ttaattgacc gggactacat ggaaagagat 2820
 aaagaaaatc caaaccagta caactatatt gcatagaatg ttggccttgc agcatttggt 2880
 gtcatatgca gtagccagtg gataaactaa cctgttgatt caat 2924

<210> 843

<211> 2543

<212> DNA

<213> Homo sapiens

<400> 843

cagtttgtct ggcctgcgct tgccgagggtc tccgccgcct gggctcctag ggactgtggc 60
 ctccggcggga gcaagctcgg ctgaaggccc acgtcgtaga ccgggacacc gaggcgtggc 120
 agcgagaccc cgccttctcg ggtcttcaga gggtcggggg cgttgacgtg tccttcgtga 180
 aaggggacag tgtccgcgct tgtgcttccc tgggtgggtgct cagcttcctt gagctcgagg 240
 ctttgggggtg gcctgccacc ttggcgctct tacagacctg ccgtgtgttg ggggtggccaa 300
 gaaacttctg caggtggatg ggctggagaa caacgccctg cacaaggaga agatccgact 360
 cctgcagact cgaggagact cattccctct gctgggagac tctgggactg tcctgggaat 420
 ggccctgagg agccacgacc gcagcaccag gcccctctac atctccgtgg gccacaggat 480
 gagcctggag gccgctgtgc gcctgacttg ctgctgctgc aggttccgga tcccagagcc 540

cgtagcgccag cactttgttg aacgtggtgg tgagagcaca cgtcctcgtc tcattcctga 600
tcgaacgcgg tggtagagagc acacgtcctc gtctcgttcc tgatcgaacg cggtaggtgag 660
agcacacgtc ctcgtctcgt tcctgatcga acgcggtggt gagagcacac gtcctcgtct 720
cgttcctgat cgaacgcggg ggtgagagca cacgtcctcg tctcgttcct gatcgaacgt 780
ggtggtgaga gcacacgtcc ttgtcttggt cctgatctta agggaacgtt tgcagtcttt 840
caccactaga tgtgatgtga gctgttagat tttcaaggat gctcttcac cagctgaaga 900
cgggtcccttc tagtcctaatt ttgttaagtg tttttatcct taaagggtac tggattttgt 960
caaatgcttt tctggcctct attgaaaaga tcctgtgttc ttctgttaat atgaggtgtt 1020
acattgattg attttcatat gttgagccag tttccatttg tggaatacat ctaactcggg 1080
catggtgtat aatccattta ctctgctgct gaatgtgatt tgcttgatt ttggtgcgga 1140
tttttacatc tgtatttata agggatattg gtctggtgtt ttcttatgat gtcttccttt 1200
ggttttgata tcaggataat attagcctca tagattgggt taggaaatgt tctctcctcc 1260
gttttttttg gaagagagag attggtgtta attcttgcta gaacctttgg tagaatttgc 1320
cagtaagcct atctggtctt ggggtctttgg gaggattttg attcgattca atctatgtat 1380
ttgttataga tcgttcggat tgtccatccc tgagtcagtt gctagcttgt gtgtttcttg 1440
gagtttttcc gtttcgtcca tgttatctca tctgttggca taccgtcgtt cacgggattt 1500
tattgatgtg tgtgaggtct ctgagaacgt ccctgccttc actcctgctt ttagtcaactg 1560
gcatcttctt ttaacttggg ccatctggcc gtgcatgggt ttgggagagt cctccttgac 1620
tctgcagatg ctgagcagtg atctggctgg gaaaggggac caggagtgc gggcacctgc 1680
tgaggactca cctaagccca agagtcagag agtcggagct ccaaccacat ctgcctgcat 1740
gcctttccca ggctctcccc aggcggacag ccagcacccc ctcccaaag accgggcagt 1800
tcctgaccag caccaccca agtcctcagt aaggcctgtc tttgggggag cagggtttca 1860
ggaggacagt gggggtggtg tagaactcat ggctggcggg tccgggcctc tcaggaagct 1920
ttgccactgg gcttgggggt aagtgggtgt ggggctccga accctaaatg ggtgagagtt 1980
gaaatgaaag cggcacctgt agtccgtttg ggggtgcaggt gtgtgccagg ggtcttcagc 2040
cccggctgat ggccacatga accacatgag gagaggcagg gcgtgtcagc agcaaacta 2100
agtgtgtgct cttttctgtg ggcccttact ctgtgacact gcagctctcc agagagacgc 2160
tttgaaaaca aaacaggaaa gaacacacgg ccccgctctt gttgcctgag tcaactgtatt 2220
ccttaaaagg tgaaggacct tggctccttg cttttcgtgc acatgagaaa atgttggcca 2280

aggttagcga ttatgcttct gtaatctgta accagaagtg ctcttatgcc caaaccttga 2340
tgtgattctg ctgtaatgta acttcggagc cagctggatg gatgtgactg tgcaggctct 2400
gagccccggc ccccgtaacc aagcagtggg ccgagacact gagccgggca gtcaaacagg 2460
agctctctaa ggctgctccc gggctgggac ctgggtctag gattctcagt aagacctttg 2520
aataaaacta acttgaattc ttc 2543

<210> 844

<211> 2704

<212> DNA

<213> Homo sapiens

<400> 844

atttctcccc gagatggcgg gtctgacggc ggccggccccg cggcccggag tcctcctgct 60
cctgctgtcc atcctccacc cctctcggcc tggagggggtc cctggggcca ttcctggtgg 120
agttcctgga ggagtctttt atccaggggc tggctctgga gcccttggag gaggagcgt 180
ggggcctgga ggcaaacctc ttaagccagt tcccggaggg cttgcgggtg ctggccttgg 240
ggcagggtga ggtggagctt ttgctggaat ccaggagtt ggaccctttg ggggaccgca 300
acctgggggtc ccactgggggt atcccatcaa ggcccccaag ctgcctggct atgggcccgg 360
aggagtggct ggtgcagcgg gcaaggctgg ttaccaaca gggacagggg ttggcccca 420
ggcagcagca gcagcggcag ctaaagcagc agcaaagtgc ggtgctggag cagccggagt 480
cctccctggt gttggagggg ctggtgttcc tggcgtgcct ggggcaattc ctggaattgg 540
aggcatcgca ggcgttgga ctccagctgc agctgcagct gcagcagcag ccgctaaggc 600
agccaagtat ggagctgctg caggcttagt gcctggtggg ccaggctttg gcccgaggat 660
agttggtgtc ccaggagctg gcgttccagg tgttggtgtc ccaggagctg ggattccagt 720
tgtcccaggt gctgggatcc cagggtctgc ggttccaggg gttgtgtcac cagaagcagc 780
tgctaaggca gctgcaaagg cagccaaata cggggccagg cccggagtcg gagttggagg 840
cattcctact tacggggttg gagctggggg ctttcccggc tttggtgtcg gagtcggagg 900
tatccctgga gtcgcaggtg tccctagtgt cggaggtgtt cccggagtcg gaggtgtccc 960

gggagttggc atttccccg aagctcaggc agcagctgcc gccaaaggctg ccaagtacgg 1020
gttagttcct ggtgtcggcg tggctcctgg agttggcgtg gctcctgggtg tcggtgtggc 1080
tcctggagtt ggcttggctc ctggagttgg cgtggctcct ggagttgggtg tggctcctgg 1140
cgttggcgtg gctcccggca ttggccctgg tggaaattgca gctgcagcaa aatccgctgc 1200
caaggtggct gccaaagccc agctccgagc tgcagctggg cttggtgctg gcatccctgg 1260
acttggagtt ggtgtcggcg tccctggact tggagttgggt gctgggtgtc ctggacttgg 1320
agttgggtgct ggtgttcctg gcttcggggc agtacctgga gccctgggtg ccgctaaagc 1380
agccaaatat ggagcagcag tgcctgggggt ccttggaggg ctcggggctc tcggtggagt 1440
aggcatccca ggcggtgtgg tgggagccgg acccgccgcc gccgctgccg cagccaaagc 1500
tgctgccaaa gccgcccagt ttggcctagt gggagccgct gggctcggag gactcggagt 1560
cggagggcctt ggagttccag gtgttggggg ccttggaggt atacctccag ctgcagccgc 1620
taaagcagct aaatacggag tggcagcaag acctggcttc ggattgtctc ccattttccc 1680
aggtggggcc tgcctgggga aagcttgtgg ccggaagaga aaatgagctt cctaggacct 1740
ctgactcacg acctcatcaa cgttgggtgct actgcttgggt ggagaatgta aaccctttgt 1800
aaccatcc catgcccctc cgactcccca cccaggagg gaacgggcag gccgggcggc 1860
cttgcagatc cacagggcaa ggaaacaaga ggggagcggc caagtgcccc gaccaggagg 1920
ccccctactt cagaggcaag ggccatgtgg tcctggcccc ccaccccatc cttcccacc 1980
taggagctcc cctccacac agcctccatc tccaggggaa cttggtgcta cacgtgggtg 2040
ctcttatctt cctgggggga gggaggagg aagggtggcc cctcggggaa cccctacct 2100
ggggctcctc taaagatggt gcagacactt cctgggcagt cccagctccc cctgcccacc 2160
aggaccacc gttggctgcc atccagttgg tacccaagca cctgaagcct caaagctgga 2220
ttcgctcata gcatccctcc tctcctgggt ccacttggcc gtctcctccc caccgatcgc 2280
tgttccccac atctggggcg cttttgggtt ggaaaaccac cccacactgg gaatagccac 2340
cttggccttg tagaatccat ccgcccaccc gtccattcat ccatccgtcc gtccatccat 2400
gtccccagtt gaccgcccgg caccactagc tggttgggtg caccacat caacctggtt 2460
gacctgtcat ggccgcctgt gccctgcctc caccctccat ctacactccc ccagggcgtg 2520
cggggctgtg cagactgggg tgcaggcat ctctcccca cccggggtgt cccacatgc 2580
agtactgtat acccccatc cctccctcgg tccactgaac ttcagagcag ttcctattcc 2640
tgccccgcc atctttttgt gtctcgctgt gatagatcaa taaatatttt atttttgtc 2700

ctgg

2704

<210> 845

<211> 2239

<212> DNA

<213> Homo sapiens

<400> 845

ctcacaactc	taaggagccc	tccaaagttc	cagtctccag	gtgctgttac	tcaactcagt	60
cctaggaacg	tcggtctctg	ggaaggagcc	caagcgctcc	cagccagctt	ccaggcgcta	120
agaaaccccg	gtgcttccca	tcatggtggc	cgatcctcct	cgagactcca	aggggctcgc	180
agcggcggag	cccaccgcca	acgggggcct	ggcgctggcc	tccatcgagg	accaaggcgc	240
ggcagcaggc	ggctactgcg	gttcccggga	ccagggtgcg	cgtgccttc	gagccaacct	300
gcttgtgctg	ctgacagtgg	tgggtgtgcag	cttgatcggc	ggcgccgcca	gcctggaccc	360
cggcgcgctc	ggccgtctgg	gcgcctgggc	gctgctcttt	ttcctgggtca	ccacgtgct	420
ggcgtcggcg	ctcggagtgg	gcttggcgct	ggctctgcag	ccgggcgccg	cctccgccgc	480
catcaacgcc	tccgtgggag	ccgcgggcag	tgccgaaaat	gccccagca	aggaggtgct	540
cgattcgttc	ctggatcttg	cgagaaatat	cttcccttcc	aacctgggtgt	cagcagcctt	600
tcgctcatac	tctaccacct	atgaagagag	gaatatcacc	ggaaccaggg	tgaaggtgcc	660
cgtggggcag	gaggtggagg	ggatgaacat	cctgggcttg	gtagtgtttg	ccatcgtctt	720
tgggtgtggcg	ctgcggaagc	tggggcctga	aggggagctg	cttatccgct	tcttcaactc	780
cttcaatgag	gccaccatgg	ttctggtctc	ctggatcatg	tggtagcccc	ctgtgggcat	840
catgttcctg	gtggctggca	agatcgtgga	gatggaggat	gtgggtttac	tctttgcccg	900
ccttggcaag	tacattctgt	gctgcctgct	gggtcacgcc	atccatgggc	tccttggtact	960
gcccctcatc	tacttctctt	tcaccgcaa	aaaccctac	cgcttctgt	ggggcatcgt	1020
gacgccgctg	gccactgcct	ttgggacctc	ttccagttcc	gccacgtgc	cgctgatgat	1080
gaagtgcgtg	gaggagaata	atggcgtggc	caagcacatc	agccgtttca	tcctgcccac	1140
cggcgccacc	gtcaacatgg	acggtgccgc	gctcttccag	tgcgtggccg	cagtgttcat	1200

tgcacagctc agccagcagt ccttggactt cgtaaagatc atcaccatcc tggtcacggc 1260
 cacagcgtcc agcgtggggg cagcgggcat ccctgctgga ggtgtcctca ctctggccat 1320
 catcctcgaa gcagtcaacc tcccggtcga ccatactctcc ttgatcctgg ctgtggactg 1380
 gctagtcgac cggtcctgta ccgtcctcaa tgtagaaggt gacgctctgg gggcaggact 1440
 cctccaaaat tacgtggacc gtacggagtc gagaagcaca gacctgagt tgatacaagt 1500
 gaagagtgag ctgcccctgg atccgctgcc agtccccact gaggaaggaa accccctcct 1560
 caaacactat cggggggccc caggggatgc cacggctgcc tctgagaagg aatcagtcac 1620
 gtaaaccctc ggaggacact tccctgccct gctgggggtg ctctttggac actggattat 1680
 gaggaatgga taaatggatg agctagggtc ctgggggtct gcctgcacac tctggggagc 1740
 caggggcccc agcacctcc aggacaggag atctgggatg cctggctgct ggagtacatg 1800
 tgttcacaag ggttactcct caaaaccccc agttctcact catgtcccca actcaaggct 1860
 agaaaacagc aagatggaga aataatgttc tgctgcgtcc ccaccgtgac ctgcctggcc 1920
 tcccctgtct caggagcag gtcacaggtc accatgggga attctagccc cactggggg 1980
 gatgttaca caccatgctg gttatttttg cggctgtagt tgtgggggga tgtgtgtgtg 2040
 cacgtgtgtg tgtgtgtgtg tgtgtgtgtg ttctgtgacc tcctgtcccc atggtacgtc 2100
 ccaccctgtc ccagatccc ctattccctc cacaataaca gaaacactcc cagggactct 2160
 ggggagaggc tgaggacaaa tacctgtgtg cactccagag gacatttttt ttagcaataa 2220
 aattgagtgt caactattt 2239

<210> 846

<211> 2181

<212> DNA

<213> Homo sapiens

<400> 846

agtgcagccc gaagccccgc agtccccgag cacgcgtggc catgcgtccc ctgcgcccc 60
 gcgcccgcgt gctggcgctc ctggcctcgc tcctggccgc gccccgggtg gccccggccg 120
 aggccccgca cctggtgcat gtggacgcgg cccgcgcgt gtggcccctg cggcgcttct 180

ggaggagcac aggcttctgg ggggccactg gacggggcct gagctacaac ttcacccacc 240
tggacgggta cttggacctt ctcagggaga accagctcct cccagggttt gagctgatgg 300
gcagcgcctc gggccacttc actgactttg aggacaagca gcaggtgttt gagtggaagg 360
acttggcttc cagcctggcc aggagataca tcggtaggta cggactggcg catgtttcca 420
agtggaactt cgagacgtgg aatgagccag accaccacga ctttgacaac gtctccatga 480
ccatgcaagg cttcctgaac tactacgatg cctgctcgga gggctctgcg gccgccagcc 540
ccgccctgcg gctgggaggc cccggcgact ccttccacac cccaccgcga tccccgtga 600
gctggggcct cctgcgccac tgccacgacg gtaccaactt cttcactggg gaggcgggcg 660
tgccgctgga ctacatctcc ctccacagga aggtgcgccc tgcccctccg tccgccccgg 720
tgttctgcgc cctcagccgc tgtgccccgg gccgcgctga ccctggtggt gctgaggcgg 780
ccccgcccgc aggggtgcgcg cagctccatc tccatcctgg agcaggagaa ggctcgtcgcg 840
cagcagatcc ggcagctctt cccaagttc gcggacaccc ccatttaca cgacgaggcg 900
gaccgctgg tgggctggtc cctgccacag ccgtggaggg cggacgcgac ctacgcggcc 960
atggtggtga aggtggggcg gcccaacgcc ctgcgcgccc cccggccacc ttcctcccga 1020
gacgggacag gcgagcggtg gccgcgccac ccggtcccag ctgccctgga caccgcagg 1080
tcacgcgcga gcatcagaac ctgctactgg ccaacaccac ctccgccttc ccctacgcgc 1140
tcctgagcaa cgacaatgcc ttcttagact accaccgca ccccttcgcg cagcgcacgc 1200
tcaccgcgcg cttccaggtc aacaacaccc gcccgccgca cgtgcagctg ttgcgcaagc 1260
cgggtgctcac ggccatgggg ctgctggcgc tgctggatga ggagcagctc tgggccgaag 1320
tgtcgcaggc cgggaccgtc ctggacagca accacacggt gggcgtcctg gccagcgcgc 1380
accgccccca gggcccggcc gacgcctggc gcgccgcggt gctgatctac gcgagcgacg 1440
acaccgcgc ccacccaac cgcagcgtcg cggtgaccct gcggctgcgc ggggtgcccc 1500
ccggcccggg cctggtctac gtcacgcgt acctggacaa cgggctctgc agccccgacg 1560
gcgagtggcg gcgcctgggc cggcccgtct tccccacggc agagcagttc cggcgcatgc 1620
gcgcggctga ggaccgggtg gccgcggcgc cccgcccctt acccgccggc ggccgcctga 1680
ccctgcgccc cgcgctgcgg ctgccgtcgc ttttgcgtgt gcacgtgtgt gcgcgccccg 1740
agaagccgcc cgggcaggtc acgcggctcc gcgccctgcc cctgaccaa gggcagctgg 1800
ttctggtctg gtcggatgaa cacgtgggct ccaagtgcct gtggacatac gagatccagt 1860
tctctcagga cggtaaggcg tacaccccg tcagcaggaa gccatcgacc ttcaacctct 1920

ttgtgttcag cccagacaca ggtgctgtct ctggctccta ccgagttcga gccctggact 1980
 actgggccccg accaggcccc ttctcggacc ctgtgccgta cctggaggtc cctgtgccaa 2040
 gagggccccc atccccgggc aatccatgag cctgtgctga gcccagtggt gttgcacctc 2100
 caccggcagt cagcgagctg gggctgcact gtgcccatgc tgcctccca tcacccctt 2160
 tgcaatatat ttttatattt t 2181

<210> 847

<211> 2600

<212> DNA

<213> Homo sapiens

<400> 847

acgagaattt ttacttttg agggaaaaaa aattgtctta tgtattgcat gtgctgtact 60
 ttaaaaaaaaa aaaatctgtt ctccctaggt tctaagactt tttcagtaat ataaaaatag 120
 cagtgtgaat tccttcccc aacattatgg ctttatcagt aaaaagaaat actggtattt 180
 cattgtagca ctttctaaaa ttcagtacta agtgaatcct ctaatccaga gatttggtta 240
 tctaggcacc aaaagaaaca tgatttaaag tggttataga aataggtcac atgtactagt 300
 gacagattta gtaatgaact tgттаатgca aaatcagaat accctcttaa tccctcctat 360
 acaccctccc tccctaataa aaataataat taggttttct ttttttgctt tttatatcaa 420
 tagtgtcatc aataatattt ttgtcacagc ttgggtggcag ggatgagggtg gagggatccc 480
 tccctaattc tgaatgggtc tgcagctctgg gaaatttcag ctgttaggtt caatgtcctg 540
 ggagtggttt cctccaaatg atgatgtgag gattccactg tgtatatttt aaagactacc 600
 caatcagggc cccatgcatt cctcatcttt tagatttgtg aacatctggc ctgctctctt 660
 ctttgcccc aggtcgggtg tacgccgtgc agcaagtctt ttaagtaaag tagtggacag 720
 cctggcccca tccattacta atgttttagt gcagggcaaa caggtaactc tgggtgcctt 780
 tgggcatgaa gaagaagtta tctctaatac ttgtctcca agagtgattc aaaacatcat 840
 ctattataag tgtaacaccc atgatgagag ggaagcgggtc attcagcaag aactgggtcat 900
 ccatattggc tggatcatct ccaataaccc tgagttattc agtggcatgc tgaaaataacg 960

aatcgggtgg atcatccatg ccatggagta tgaacttcag atccgtggcg gagacaagcc 1020
agccttggac ttgtatcagc tgtcacctag tgaagttaaa cagcttctgc tggatattct 1080
gcagcctcaa cagaatggaa gatgttggct gaacaggcgt cagatcgatg ggtctttgaa 1140
tagaactccc accgggttct atgaccgagt gtggcagatt ctggagcgca cgcccaatgg 1200
gatcattgtt gctgggaagc atttgcctca gcaaccaacc ctgtcagata tgaccatgta 1260
tgagatgaat ttctctctcc ttgttgaaga cacgttggga aatattgacc agccacagta 1320
cagacagatc gttgtagagt tacttatggg tgtatccatt gtactggaaa gaaaccccgga 1380
gctagaatth caagacaaag tagatctaga cagactgggc aaagaagcat ttaatgaatt 1440
tcaaaaagat cagagtcggc taaaggaaat tgaaaaacaa gatgacatga cttcctttta 1500
caacactcct cccctgggaa aaagaggaac atgcagctat ttgacaaagg cggatgatgaa 1560
tctgctgctg gaaggagaag tcaagccaaa caatgatgac ccgtgtctga ttagctagtg 1620
gggaagggtg aggaagctct gttgagacac atgttctgaa gtgtgttgtg tttcatgttc 1680
aagcttaatc aaggcagcca ttaatatacg aactgagcat gctggggagg tgaatgccac 1740
atccttggcg gggttatgga cctcttgcac gtcatagcca atctaacggg aatggtaaat 1800
gcttttaatc aagcaggaaa aagtctctcat gattatgcca actataatag taatcctcac 1860
tgagtataaa aaatagttha tgaattgaaa atttgccgct gcatgttgta tgatcaataa 1920
gttcatcaaa atgaatcttt gctctttgga ctgaattctt accatactgc cattaaaata 1980
aatttgccaa ctagtaatgc atactggaaa tcaaaagata ctgaaagaat ggtgaacttc 2040
tcttagtggt attgtcatgc taaaagatgt taatatacat cataaaagca aagtcagcca 2100
gctgatattt tggttctcaa aaactgcatt attaataata ttttagtata cagagctatt 2160
ctacagtttt tacattgtaa acatgactgt ggttttgtat ttgctaaata taggggttgg 2220
actaaaatat aataaatctg taccttatca aacattttct ttgagctcct gctaaaaata 2280
ggacatgtct atgattgttc aaaaatatgt taaatttagg ctcagcacag tagctcacac 2340
ctgaaatctt agcacttcgg gaggtgagg caggtggatc acttgagggtt aggagttcaa 2400
gaccagccca gccaacatgg tgaaaaccct gtctctacta aaaatacaaa aattagccag 2460
gcatgatggg gcatgccttt aaaccagct actgaggagg ctgaggcatg agaattgctt 2520
gaaccaggag acggaggttg cagtgagctg aaatcctgcc actgcacacc agcctgggtg 2580
acagagcgag actccatctc 2600

<210> 848

<211> 2757

<212> DNA

<213> Homo sapiens

<400> 848

gtttcaggac	cgttggcacc	gggctaacgg	ttccaccacg	tccgccgccc	tggacgcccg	60
cggcctgccc	ctccctgcct	ctcctgcgcc	ggacctgggg	acacgggtga	ctcagacgtg	120
actcaggaag	gctcaggtcc	tgctggcatc	cgagaggtg	agacggtgat	cagagctggg	180
atgggagact	ccccaggcag	aggggcaccc	gagaggaggc	acaaggccca	gcctggccgg	240
gctaggaagt	atgaatggag	accagaaggc	cccaccagca	tgggcagcct	cggccagaga	300
gaagatctcc	aagatgagga	caggaactca	gcattcacct	ggaaggtcca	ggccaacaac	360
cgtgcctaca	acgggcagtt	caaggagaag	gtgacctgt	gctggcaaag	gaagaaatac	420
aagaccaatg	tcacccgcac	ggccaagtac	aacttctact	cgttcctgcc	gctgaacctg	480
tacgagcagt	tccaccgct	gtccaacctg	ttcttctca	tcattcatcat	cctgcagagc	540
attcccgaca	tctccacgct	gccctggttc	tcgctcagta	cccctatggg	ctgcctcctc	600
ttcatccgtg	ccaccggga	cctgggtggac	gacatgggga	gacacaagag	tgacagagcc	660
atcaacaaca	gaccctgcca	gattctgatg	gggaagagct	tcaagcagaa	gaaatggcag	720
gatctgtgcg	tgggggatgt	ggtctgtctc	cgcaaggaca	acatcgctcc	agccgacatg	780
ctcttgctgg	ccagcacgga	gcccagcagc	ctgtgctatg	tggagacggg	ggacattgac	840
ggggagacca	acttgaagtt	cagacaggcc	ctgatggtca	cccacaaaga	actggccact	900
ataaagaaga	tggcgtcctt	tcaaggcaca	gtgacgtgtg	aggcgcctaa	cagtcggatg	960
caccacttcg	tgggggtgcct	ggaatggaat	gacaagaaat	actccctgga	catttggaac	1020
ctcctcctcc	gaggctgcag	gattcgcaac	acagacacct	gctatggact	ggtcatttat	1080
gctgggtttt	acacaaaaat	tatgaagaac	tgtggcaaga	tccatttgaa	gagaaccaag	1140
ctggacctcc	tgatgaacaa	gctggtgggt	gtgatcttca	tctccgtggg	gcttgtctgc	1200
ctggtgttgg	ccttcggctt	cggtttctca	gtcaaagaat	tcaaagacca	ccactactac	1260
ctctcggggg	tgcattgggag	cagcgtggcc	gcagagtcct	tcttcgtctt	ctggagcttc	1320

ctcatcctgc tcagcgtcac catcccgatg tccatgttca tcctgtccga gttcatctac 1380
ctggggaaca gcgtcttcat cgactgggac gtgcagatgt actacaagcc gcaggacgtg 1440
cctgccaagg cccgcagcac cagcctcaac gaccacctgg gccaggtgga atacatcttc 1500
tcggacaaga cgggcacgct cacgcagaac atcttgacct tcaacaagtg ctgcatcagc 1560
ggccgcgtct atggtgcggc cccgacacct gagctcccag ctgggtcctc gatcttcaag 1620
gggctcaggg tgcctgagaa ccagagccac gtctggcccc atgcccagca cctccgcccg 1680
aatctgaacc agggaaccgt agccagatgg cctgggtttcc tttggagggg gccaggaaaa 1740
tttttttttt ttttgaggca gagtctcact ctgtctaccc aggcaggagt gcagtgggtgc 1800
aatcttggct cactgcaatc tccacctccc gggttcaggc gattctcctg gctcagcctc 1860
ccgagtggct gggattacag gcacctgcca ccacacctaa tttttttgta tttttagcag 1920
agatgggggtt tcacatgtt ggccatgctg gtctcgaact cctggcctcc ggcgatccac 1980
ctgcctcggc ctcccaaagt gctgggatta caggcgtgag ccaccacgcc cggccgactt 2040
tttttttttt ttctctctga gacggagttt tgctctcgtt gccagggctg gagtgcagtg 2100
gtgcgatctc tgctcactga aacctccgcc tcctgggttg attctcccgc ctcagcctcc 2160
caagtagctg ggattacagt tgcgtgccac cccgcctggc taatttttgt attttttttt 2220
tcagtagaga tggggtttca ccctgtttcc caggctggtc tcgaactcct gacttcaggt 2280
gatctgcctg cctcagcctc caaaatatattg gcattgcagg catgagccac catacctagc 2340
caaactttta aacagtgtgt atttatttat tttttgagat ggggtcttgc tctgccgccc 2400
aggctggaat gcagtgggtgc aatcatagct tattgcagcc tcgaattcct gggctcaagc 2460
aatcctccca cttcagcttc ccaagtagcc gggactacag gagagtgcc a cttacccag 2520
cttatttttg tattttttgt caagacaggg aatccctatg ttgccaggc tggctcttgaa 2580
ctcctgggct taagcgatcc gcctgcctcc gcttttcaaa gcactggaat tacagatgtg 2640
agccaccaca cccggccact gctcttcttt tgactttcac aagcctttat ttgtggatgc 2700
tgaaattcga attgctgagt atttctcaga tcacaaaata aaatagtttt gtttggtt 2757

<210> 849

<211> 2765

<212> DNA

<213> Homo sapiens

<400> 849

agtcacgatg	atggcggcca	ccatcctgtg	gtgagctagc	ggattccctg	cttgtctcgc	60
cgacccccctc	gcgctttctg	cagactccgt	ggctggcgct	cggcgcgtga	ggaagcacgg	120
cggccccgagt	tcgcggggaa	ggccgcagtc	gcggaggcag	cggcgcggtc	cggggcacgg	180
gctggggggag	aggccgctcc	gctgggcgaa	tgtgacaagc	ccccaccccc	accgccttcc	240
tccccagagc	gcgaggagcg	cgggcgcagg	cccggcagcc	gagctgcgcg	gcggcaccat	300
gcaggtcacc	ctgaagaccc	tccagcagca	gaccttcaag	atagacattg	accccagga	360
gacggtgaaa	gactgaaag	agaagattga	atctgaaaag	gggaaagatg	cctttccagt	420
agcaggtcaa	aaattaattt	atgcaggcaa	aatcctcaat	gatgatactg	ctctcaaaga	480
atataaaaatt	gatgagaaaa	actttgtggt	ggttatgggtg	accaaacca	aagcagtgtc	540
cacaccagca	ccagctacaa	ctcagcagtc	agctcctgcc	agtactacag	cagttacttc	600
ctccaccacc	acaactgtgg	ctcaggctcc	aaccctgtc	cctgccttgg	ccccacttc	660
cacacctgca	tccatcactc	cagcatcagc	gacagcatct	tctgaacctg	cacctgctag	720
tgcagctaaa	caagagaagc	ctgcagaaaa	gccagcagag	acaccagtgg	ctactagccc	780
aacagcaact	gacagtacat	cgggtgattc	ttctcgggtca	aacctttttg	aagatgcaac	840
gagtgcactt	gtgacgggtc	agtcttacga	gaatatggta	actgagatca	tgtcaatggg	900
ctatgaacga	gagcaagtaa	ttgcagccct	gagagccagt	ttcaacaacc	ctgacagagc	960
agtggagtat	cttttaatgg	gaatccctgg	agatagagaa	agtcaggctg	tggttgaccc	1020
ccctcaagca	gctagtactg	gggctcctca	gtcttcagca	gtggctgcag	ctgcagcaac	1080
tacgacagca	acaactacaa	caacaagttc	tggaggacat	ccccttgaat	ttttacggaa	1140
tcagcctcag	tttcaacaga	tgagacaaat	tattcagcag	aatccttcct	tgcttccagc	1200
gttactacag	cagataggtc	gagagaatcc	tcaattactt	cagcaaatta	gccaacacca	1260
ggagcatttt	attcagatgt	taaatgaacc	agttcaagaa	gctgggtggtc	aaggaggagg	1320
aggtggagggt	ggcagtggag	gaattgcaga	agctggaagt	ggtcatatga	actacattca	1380
agtaacacct	caggaaaaag	aagctataga	aaggttaaag	gcattaggat	ttcctgaagg	1440
acttgtgata	caagcgtatt	ttgcttgtga	gaagaatgag	aatttggtg	ccaattttct	1500
tctacagcag	aactttgatg	aagattgaaa	gggacttttt	tatatctcac	acttcacacc	1560

agtgcattac actaacttgt tcaactggatt gtctgggatg acttgggctc atatccacaa 1620
tacttgggtat aaggtagtag attgttgggg gtggggaggg agggatctag gatacagggc 1680
agggataaat acagtgcatt tctgcttcaa ttagcagatg ccgcaactcc acacagtgtg 1740
taaaatatat acaacaaaa atcagctttt gcaggtcttt atttcttctg taaaacagta 1800
ggtaactttt cctaggtttc actcttttta gtgtactaga tccagaaact tagtgtaatg 1860
ccctgcttta tatttctttg acttaacatt ggtttcagaa agaactctag ctacctagaa 1920
tttacagtct ctgtttcatg gcaacactgg ataatggctt tgtgaaattt aaaaaatttt 1980
tgtagcgact gtaaacagaa atgccaaatt gatggttaat tgttgctgct tcaaaaataa 2040
gtataaaatt aatatgtaag gaagcccatt ctttcatgtt aaatacttgg ggtgggaggg 2100
gagaaagga accttttctt aaaatgaaaa taattactgc tattttaaaa tttcttgatc 2160
attgaatgtg agacccttct aacatgattt gagaagctgt acaagtatag gcagagtatt 2220
tttctgtttt acattttttt ttttgttttg gggaaaaaat tggtaggtgt ctaattactg 2280
tttacttcat tgttatattg cagtaaaagt tttaaaacaa ccattgcatg tttgcttttg 2340
atgtatccct ttgtgaaatt agcacttttg gggccaatgg agaaatgcag cattcactct 2400
ccctgtcttt tccccttccc tcagcagaaa cgtgtttatc agcaagtcgt gagtcaaact 2460
gctgcctttt aaaaaacca caaatgctg attcagttca aaattaatgc aaatgtttca 2520
aaactgggtt tctgatattt gtaaatgtgt ttctttatta gataagagtg tattaccatt 2580
aaagtcatta gtataatatt gctttcaaaa agaaatggta gacaaaacta taatccagca 2640
tcttttattg cattggaaag actggcaaag tcttttggat gggttgggag atgtggctgg 2700
aaagtacttt ggaaaatata caatcaagat atctcatggc atattaaaag aaaaatctta 2760
atagc 2765

<210> 850

<211> 2069

<212> DNA

<213> Homo sapiens

<400> 850

ctctccttcc ccggccgcgc gtcctctcgc cgctccgacg ccagcagcgc ccgcgtgccg 60
ctcgcccagt cccgggggag cccctgcaag tttcccgggc cgcgcgccgc gctcgctcgc 120
ctcccagccc gcggcccag cgcgcgcgc gcccgccatg ccctcggcca aacaaagggg 180
ctccaagggc ggccacggcg ccgcgagccc ctcggagaag ggtgcccacc cgtcgggcgg 240
cgcggatgac gtggcgaaga agccgccgcc ggccgctttc tcgggctggt gcgtccacca 300
cgtcctggag gaggtccagc aggtccggcg cagccaccag gacttctccc ggcagaggga 360
ggagctgggc cagggcttgc agggcgctga gcagaagggt cagtctttgc aagccacatt 420
tggaactttt gagtccatct tgagaagctc ccaacataaa caagacctca cagagaaagc 480
tgtgaagcaa ggggagagtg aggtcagccg gatcagcgaa gtgctgcaga aactccagaa 540
tgagattctc aaagacctct cggtgggat ccatgtggtg aaggacgccc gggagcggga 600
cttcacgtcc ctggagaaca cgggtggagga gcggctgacg gagctcacca aatccatcaa 660
cgacaacatc gccatcttca cagaagtcca gaagaggagc cagaaggaga tcaatgacat 720
gaaggcaaag gttgcctccc tggaagaatc tgaggggaac aagcaggatt tgaaagcctt 780
aaaggaagct gtgaaggaga tacagacctc agccaagtcc agagagtggg acatggaggc 840
cctgagaagt acccttcaga ctatggagtc tgacatctac accgaggtcc gcgagctggt 900
gagcctcaag caggagcagc aggctttcaa ggaggcggcc gacacggagc ggctcgcctt 960
gcaggccctc acggagaagc ttctcaggtc tgaggagtcc gtctcccgcc tcccgagga 1020
gatccggaga ctggaggaag agctccgcca gctgaagtcc gattcccacg ggccgaagga 1080
ggacggaggc ttcagacact cggaagcctt tgaggcactc cagcaaaaga gtcagggact 1140
ggactccagg ctccagcacg tggaggatgg ggtgctctcc atgcaggtgg cttctgcgcg 1200
ccagaccgag agcctggagt ccctcctgtc caagagccag gagcacgagc agcgcctggc 1260
cgccctgcag gggcgcttgg aaggcctcgg gtcctcagag gcagaccagg atggcctggc 1320
cagcacggtg aggagcctgg gcgagacca gctggtgctc tacggtgacg tggaggagct 1380
gaagaggagt gtgggcgagc tccccagcac cgtggaatca ctccagaagg tgcaggagca 1440
ggtgtacacg ctgctcagtc aggaccaagc ccaggccgcc cgtctgcctc ctcaggactt 1500
cctggacaga ctttcttctc tagacaacct gaaagcctca gtcagccaag tggaggcgga 1560
cttgaaaatg ctcaggactg ctgtggacag tttggttga tactcgttca aatagaaac 1620
caacgagaac aatctggaat cagccaaggg ttactagat gacctgagga atgatctgga 1680
taggttgttt gtgaaagtgg agaagattca cgaaaaggtc taaatgaatt gcgtgtgcag 1740

ggcgcggtatt taaagtccaa tttctcatga ccaaaaatgt gtggtttttt cccatgtgtc 1800
ccctaccccc caatttcttg tcccctctta aagagcagtt gtcaccacct gaacaccaag 1860
gcattgtatt ttcatgccca gttaacttat ttacaatatt taagttctct gcttctgcat 1920
ttggttggtt tcctgaagcg cagcccctgt gaataacagg tggcttttca tggatgtctc 1980
tagtcagaga aaaatgataa aggcctaaat tgaggattaa cagaagcaga ttaacctcag 2040
aaatcctgtc tggctggcag atttcaagt 2069

<210> 851

<211> 2068

<212> DNA

<213> Homo sapiens

<400> 851

gcggtgctct ggggtccggga gcgctgtccc cagcatgaac gcggccggcg gcgggagtga 60
atgactgcag ctgcgacttc cttcccgggc cgcccagacc tccttcccca ccgactttct 120
tgttttgatt aactccgtgg actcctgact ctttcttcgc ccggaacatc aatatgtgtc 180
atgtcattgt cacctgtcgc tcgatgtctt ggaccttgct gagtattgtg gtggcttttg 240
ccgagctcat tgccttcatg agtgcagact ggctgaccgg gaaagcgagg agccgcggcg 300
gcgtggagcc ggcggggcccg ggcgggggct ccccggagcc ctaccacccc accctgggca 360
tctacgcccg ctgcatccgg aaccagggg tgcagcactt ccagcgggac acgtgtgtcg 420
ggccctacgc cgagagcttc ggcgagatcg ccagcggtt ctggcaggcc acagctattt 480
tcctggctgt gggaatcttt attctctgca tgggtggcctt ggtgtccgtc ttcacatgt 540
gtgtacagag catcatgaag aaaagcatct tcaatgtctg tgggctgttg caaggaattg 600
caggtctatt ccttatctc ggtttgatac tctaccctgc tggctggggg tgcagaagg 660
ccatagacta ctgtggacat tatgcatctg cctacaaacc tggagactgc tccttgggct 720
gggcctttta taccgccatt gggggcacag tcctcacttt catctgtgct gtcttctctg 780
cacaagcaga aattgcaacc tctagtgaca agtacagga agaaattgaa gaggggaaaa 840
acctgatctg cctcctttag tttggaagag acaatgccat tttctccctt gagtaatctt 900

gtgaaacagt ccacagtttc atcatttgag tcaagtggag aactaacctt tacctaccaa 960
agccacgttc cacggcccga ggcttaaaca ggaccaatga gaggccacat ccagctacgc 1020
aaagt tactg gacatgcggt ctgcagtgc cattataagg aatggaacat gaaaatagta 1080
tataatccta gacctggagt tgccaagtgc tgtcagactc catctcccc aggttcaatg 1140
aaggataata atctaaatca ttagggcagc agtttctctg gtaacggaag agaccgtccg 1200
ccagatctgc aggctgtttc tgctccaaca ctgcttgctt gtgagcatct ctgcctcaga 1260
atggggtttt ggggttgagt tcttgttttc ctctgttctt tcaagttgtc tccaacgaac 1320
agaaaactat aaacttactg gggacaggat gtgtgctaaa gggcacagca agacactgtc 1380
ttttgcttag ctgaccaaag gggtcagcag ggatggcgtg gagtcatgct gtggaactta 1440
ttctaggctg aatcctaggg taagggtggat caactgaact gtcactccag agattttaga 1500
aat ttgagta aagaaacaat aaggacctat acaatcatat gagaacaaaa atatgaaatc 1560
ttgctagtga agacgtattt tttcttcttc ccagcagcca ggctagcacc agttctggcc 1620
cagtctctc tttctctgga gatcacatgt tttcttctta aggttaggat tgtgctttga 1680
ctgcgaaagg aaacctcact gtttctctct tccagggact gagggtctcc aagctagctg 1740
tggcttatgc agatgttcac tgggaggacc tgccagaatc tcggcacttg gggggagacc 1800
tttactccca gtttggtgac catgctgtag tcagctctat ttccaatccc gacagtagca 1860
gaatggcatt ctacaacaaa aagaagctag ttatgggagt taagttttta tagttactgg 1920
tgttgatcct gaaagcagac tgagataaca ttaaattgct gcaactgaag aactgcagcc 1980
aagaccttaa ttccaggaaa gcacagagga caaagttaat tcaaaaagag gcgctagatc 2040
aaggtcacag cactgcctac acctgttt 2068

<210> 852

<211> 2339

<212> DNA

<213> Homo sapiens

<400> 852

agattcagta cctctcgcca gactctcacc tggatcccag actccttctt ctccaggtga 60

tcgggagagc gagtttgggg cgagggtagg agggatggag agggcgtggg agacctaata 120
tccactcccc cggcccgtga cgcctgctcg gtgtcccttc cctgcagtct tctgagcgga 180
cgcatctcga cgctgaaaga tgagaccgga gcaatcttca tcgacaggga ccctacagtc 240
ttcgccccca tctcaactt cctgcgccacc aaagagttagg accccagggg tgtccacggt 300
tccagcctcc tccatgaagc ccagttctat gggctcactc ctctggttcg tcgcctgcag 360
cttcgagagg agttggatcg atcttcttgt ggaaacgtcc tcttcaatgg ttacctgccg 420
ccaccagtgt tcccagtga gcggcggaac cggcacagcc tagtggggcc tcagcagcta 480
ggaggacggc cagcccctgt ccgacggagc aacacgatgc cccccaacct tggcaatgca 540
gggctgctgg gccgaatgct ggatgagaaa acccctccct caccctcagg acaacctgag 600
gagccgggga tgggtgcgct ggtgtgtgga caccataatt ggatcgctgt ggcctatacc 660
cagtttctag tctgctacag gttgaaggaa gcctctggct ggcagctggt gttttccagc 720
ccccgcctgg actggcccat cgaacgactg gcgctcacag cccgggtgca tgggtgggct 780
ttgggtgaac atgacaagat ggtggcagca gccaccggca gcgagatcct gctatgggct 840
ctgcaggcgg aaggcggtag ctccgagata ggggtctttc atctgggggt gcctgtggag 900
gccttgttct tcgtcgggaa ccagctcatt gctacaagcc acacagggcg catcgggggtg 960
tggaatgccg tcaccaagca ctggcaggtc caggaggtgc agcccatcac cagttatgac 1020
gcggcaggct ctttctctc cctgggctgc aacaacggct ccatttacta cgtggatgtg 1080
cagaagtcc cttgctcat gaaagacaac gacctccttgc tcagcgagct ctatcgggac 1140
ccagcggagg atggggtcac cgccctcagt gtctacctca ccccaagac cagtgcagct 1200
gggaactgga tcgagatgc ctatggcacc agctcagggg gcgtgcgggt catcgtgcag 1260
caccgggaga ctgtgggctc ggggcctcag ctcttccaga ctttactgt gcaccgcagc 1320
cctgtcacca agatcatgct gtcggagaag cacctcatct cagtctgtgc cgacaacaac 1380
cacgtgcgga catggtctgt gactcgcttc cgcggcatga tttccacca gcccggtcc 1440
acccactcg cttcctttaa gatcctggct ctggagtcgg cagatgggca tggcggctgc 1500
agtgtggca atgacattgg cccctacggg gagcgggacg accagcaagt gttcatccag 1560
aagtggtgc ccagtgccag ccagctcttc gtgcgtctct catctactgg gcagcgggtg 1620
tgctccgtgc gctccgtgga cggctcacc acgacggcct tcacagtgtg ggagtgcgag 1680
ggctcccggc ggctcggctc tcggccccgg cgctacctgc tctactggca ggccaacggc 1740
agcttggcca tgtgggacct aaccaccgcc atggacggcc tcggccaggc ccctgcaggt 1800

ggcctgacgg agcaagagct gatggaacag ctggaacact gtgagctggc cccgccggct 1860
ccttcagctc cctcatgggg ctgtctcccc agccccctac cccgcatctc cctcaccagc 1920
ctccactcag cctccagcaa cacctccttg tctggccacc gtgggagccc aagccccccg 1980
caggctgagg cccggcgccg tgggtgggggc agctttgtgg aacgctgcca ggaactgggtg 2040
cggagtgggc cagacctccg acggccaccc acaccagccc cgtggccctc cagcgggtctc 2100
ggcactcccc tcacacctcc caagatgaag ctcaatgaaa cttccttttg aacaacgcag 2160
ctgccatgat gccttgggat gccctggtcc tgggggactc aggtgcctcc ctgattcctg 2220
tgggaacccc gggttcaggg ccagggcctc cttggaataa atggttattg ttactaggtc 2280
cccaccttcc ctcttttctg gaagccaaag tcagcctccc caataaagtc ctactgcc 2339

<210> 853

<211> 2423

<212> DNA

<213> Homo sapiens

<400> 853

cgccccctgc atccactgca aggcagttgg aaaagctcca agcacaaggc atggacttct 60
cagcaccaga gctgcagctc aagcccacca gagctgccac tcacagaacc acttccttcc 120
caccccggag aatgcagtgg ggatggctct ttggcagcct gcacagctgc catttggttgg 180
gcagacagcc cctgctttcc ctcaaggcag tgggtgcctt tagggttttc agctggaaga 240
gcaggagaaa cagttccctg attaggagat ggggaccggg aggtggatca ggcatcagag 300
gtcaggccgc acatcgatc agagcaagtc tgtgcccccc tgatgctcct tggggagaat 360
ccagtgtgta aggtgtcacg tggcagtgcc agcactccct tcctcctcct gatctagatg 420
ctgattggcc ataggtccag gggttgatgc agttgttttt atttttaagg ttttgtttga 480
tcttttttct tttctttctt tttttttttt ttgagacagg atctcgctct gttgtccagg 540
ctggtatgca gtggcatgat cacagctcac tgcagcctca gccccacaga cccaacaac 600
cctgttgctt cagcttccca catagctggg actttaggca cgcaccacca cacccagcta 660
attttttatt tttttagtaa acaggatctc acgcttgtaa tcccagtact ttgggaggct 720

gaggtgggag gattgcttga ggccaagagg tggagaccag cctgggcaac atagcgagat 780
cgcatgtcta caaaagagta aaaaatagaa ataaaaaaga aatttcaaaa gtctaaaaag 840
atatctgtca aagggcagtt acctctgaga ataggactgg ggaatggaga cttttgcttt 900
ttttggtatc atttgcattc ttttataatg agcctatatt tgtttgcaat taaaagtaag 960
atcagggccg agcacggtgg ctcacacctg taatcccagc actttgggag gctgaggcag 1020
gtggatcaca aggtcaggag ttcaagacca gcctctggcc aagatgggtga aaccccatct 1080
ctactaaaaa tacaaatatt agccgggtgt ggtggcaggt gcctgtaatc ccagctactc 1140
aggaggctga ggcagagaat tgcttgaacc tgggaggcgg aggttgcaat gagccaagat 1200
cacgccacag cactccagcc tgggtgacag agcaagactc agtctcaaaa aaaaaaaaaa 1260
aaaaaaaaa gtaagatcag gccaggcctg tggctcatgc ctgtaatccc agcactttgg 1320
gagaccaagg gtggtggatc acaaggctcag gagatctggc caacacagtg aaaccccatc 1380
tctactaaaa atacaaaaat tagccaggtg tgggtggcggg tgcctgtagt cccaggtact 1440
tgggaggctg aggcagaatt gcttgaaccc aggaggcaga ggttgcaatg agccgagatt 1500
gtgccactgc actccagcct ggcaacacca gagtgaactc ctgcctcaaa aaaaaaaaaa 1560
aaaagaaaga tcaggcggtg cggcacttat acctataatc ctagcacttc tttgtagaga 1620
ccccatctct acaaagaaaa aaaattagcc aggcattggtg gcatacacct gtggtcctag 1680
ctactcggga gactgaggtg ggaggatcgc ttgagcccag gaagtagagg ctgcagttag 1740
ccaagatcgt accactgcac tccagcctgg acaacagagt gagaccctgt cccccaaccc 1800
cacaagaaat gggatcctac tctagggact attctgtacc atgttttttt catgcaataa 1860
tatgacagat ttccttattg gcatatatac aactctctta tgctttttta cggccatgta 1920
gaagtcttta tcctagtcag tggatggatt gataggatcc atgaattcta ggaaatttat 1980
tcaaaagagt gtttgtcggc caggcgcagt agctcacgcc tgtaatcca gcactttgga 2040
aggccaaagc gggcagatca cttgaggtca ggagttcgag accagcctgg ccaacatggt 2100
gaaaccccat ctctacaaa aatataaaaa attagctggg tgtggtagcg catgcctgta 2160
atactaacta ctcgggaggc tgaggcagga gaatcacttg aacctgggag gcagaggttg 2220
cagtgaacca agatcacacc actgcactcc agcctgggca acagaatgag actccgtctc 2280
aaaaataaaa gaatacaaaa gaaggccggg tgtggtggct cacgcctgta atcccagcac 2340
tttgagaggc cgaggcgggt gaatcacctg aggtcgggag ttcgagacca gcctgaccaa 2400
catggagaaa ccctgtctct att 2423

<210> 854

<211> 2573

<212> DNA

<213> Homo sapiens

<400> 854

agaggcgggg	ccaggacggc	gggaccggcc	gctgggtccc	agcgagggct	gagccgggcg	60
gtgggaggag	gtcaggatgg	tgggggaacg	gcatgctggg	gacctcatgg	tgcccttagg	120
gcctcggctg	caggcatatc	ctgaagaact	cattcgacag	aggcctgggc	atgacgggca	180
tcctgaatac	ctgatccgat	ggagtgtcct	gaagtgtggg	gaagtgggca	aagtgggtgt	240
ggaagaaggc	aaagcagagc	acatcctcat	gtggctgtcg	gctcctgagg	tctacgcaa	300
ctgccctggg	ctgttaggtg	agcgggcact	atctaaggga	cttcagcacg	aaccagctgg	360
ggtttcagga	agctttcctc	gagatccagg	aggcctggat	gaagtggcaa	tgggagagat	420
ggaggctgat	gttcaggcgc	tggtacgcag	ggcggccagg	cagctggcag	aaagtgggac	480
cccaagcctc	acggccgctg	tgcttcacac	catccacgtg	ctcagtgcct	acgccagcat	540
cgggcccctc	actggtgtct	tcaggggagac	aggagcccctg	gacctgtctc	tgcacatgtt	600
atgcaatcct	gagcctcaga	tccgccggag	tgcaggcaaa	atgctgcagg	ctctggcagc	660
ccacgatgct	gggagtcggg	ctcacgtcct	tctatcactg	agccagcaag	atggcatcga	720
gcagcacatg	gattttgaca	gtcgtatac	attgctggag	ctgtttgcag	aaaccacatc	780
ctctgaagaa	cactgcatgg	cctttgaggg	cattcatctg	cctcagatcc	caggaaagct	840
gcttttctcc	ttggtgaagc	gctacctttg	tgtcacgtcc	ctcctggatc	agctgaatag	900
cagtccagag	ctgggagctg	gagaccaaag	ctcccatgt	gccacaagag	agaaaagccg	960
gggacagcgg	gaactggagt	tcagcatggc	tgtgggcaac	ctcatctctg	agcttgtgcg	1020
gagcatgggc	tgggcccgga	acctcagcga	acagggcatg	tcacctcccc	ggccaacccg	1080
gtccatcttt	cagccctaca	tttcaggccc	cagcctttta	ctccccacca	ttgtcaccac	1140
ccccagaaga	caagggtggg	tcttccgcca	gcgctctgaa	ttctccagcc	gtagtggcta	1200
tggagaatat	gtgcagcaga	cactgcagcc	agggatgcga	gtgcggatgc	tggatgatta	1260

tgaggagatc agtgctgggg acgagggcga gttccggcag agcaacaacg gcattccccc 1320
tgtgcagacc ctgggtgaaa aggccctagg tgagatctct gtgtccgtgg aaatggccga 1380
gagtctgctg caggttctca gtagtcgatt tgagggcagc actctcaatg acctgctcaa 1440
ctcccagatc tacaccaagt atgggctgct gtctaataa ccaagcagct cgtctacttc 1500
acgaaatcac tcctgtaccc cagatccaga agaggagtcc aagtcggagg ccagcttctc 1560
agaggaagag actgagtccc tcaaagcaaa ggccgaggcc cctaagacag aggccgagcc 1620
caccaagaca aggaccgaga ccccatggc acagagtgat tctcagctgt ttaaccagct 1680
tctgggtgact gaggggatga ccctgcccac tgagatgaag gaggcagcca gtggtgagtc 1740
aggttctggg aggaagcaat tggaacaagt cctgggtagt ctcaagtaga gaaatggata 1800
gtcaggatcg aaggaaagcc atggaggaag gtgatttttg caggggaaaa tgccttgga 1860
ccatgcgtcc atcttcttcc ttttgacctt gattgtattt aattaaccag cgctcccttc 1920
cttcagtatc tctggaaaag gaggatccgt tttctgggggt gtcttcatct cctttgtttg 1980
atcattagat ccctgacaca gaattggaaa actctgcaag ctgcagtagc cgataatgtg 2040
tttaaattt ggtaggataa ctgggcttga ctttaaagac ttctaacttc aaggtgccac 2100
agttctttta gccattgcct tttccacca atttcagaaa tggccagagc cttgcgggggt 2160
cccggtcctc gcagctccct ggatcagcat gtggcagcgg tcgtggccac tgtgcagata 2220
tccagcttgg acacaaacct gcagctttca gggctctctg ccctctctca ggctgtggag 2280
gaggtcactg agcgggacca ccctctggtc cgtcctgaca gatcgtgag gttagcatac 2340
tggggagggga agaggttttg gttgaagctg taggcaaagg atggtggtag cggggaagga 2400
gctttgagat cacgaattag aaaagcttgg ggtgaggga ggctcagcct gaggagcagc 2460
cgagcaggag gggttgatgt tttaatggct cgtattcttg gagcacttct gttatgccag 2520
gcactgtgct agtatcttac atgcattctc tcattaaatc cacctaacac ctg 2573

<210> 855

<211> 2018

<212> DNA

<213> Homo sapiens

<400> 855

ctattgagca gagaaagtgc tgtcccgag gagcctgtct gcctccagcc ttatggctgc 60
tgttttctgc agcctctgag tgcagacagc ctctactagt ggggtgtcgtc atggaggaga 120
ggcagccccg tgggcttcgg ggagctgggt gcacctctcc tctcacacag ccgccgtgac 180
atagggcatg tcctgttctt ttctttagc ctagtctcct ctgggcatga tggagcctta 240
acaagctgcc gcgagtttcc aggaactcac gtctgtgaac actagccgtg tgtgtggcac 300
gcagacaagt tcattctaca ggcaactgtg gctcctgtca ttcttcttgt attttttagtc 360
ttggttatgg cagcctgcgc tgtaagctgt ttaaactcaa ctttaagtga gctaaagggtg 420
aagagagctt cactggagga gtcataaaaa tacattctca ggaccatttt ttcttcaatt 480
tttctttttg acatccttcc agactgggct tcccagatga ttctgatgca cagcctcggc 540
cacctgccct ccgatgtgcc gaggtcctgc tgcggcgggg ccctagggct cctgccctgg 600
tgtctttggg aattggaggc ccctgagcct ttagcaattg tagcttagga tgagaaggat 660
gggcagggaa tgactgcctg tgttggggag gctgagtggc cccaaggctt ggaaatggga 720
tgggtggaag cagatgtggg gaagggtgg tcctggctga ggcaactcact cactgtgtct 780
gcttcagtct caggggcatt gggttgaatc tttagtgcc gggagtctgt tctggtctgc 840
tgggggagct gcttttggag ttcttggtgt cttatttcat gaggtcgtgg caagatgggtg 900
aagtagcagc agtgcttagg gtgtgaggat ggtccgtgcc aggggtgggtgc tgccgggccg 960
cagctgtgga cgtgggtggtg gtgtgtgtcg tgttggaagg tgtgtttgtt cagacacact 1020
agtcctgggg gctgctgggc acatcactgg cgacatgccc aatgggggtga ggcagcggtc 1080
tcgggtgtcc acagtcgagc gccccagatg gcagggtctg cctggcgtcc acacaagcag 1140
gtgtgtgacc agggaggggc ccatgcacgg tgcctcctcc tcgtgcattc gccagtgccg 1200
catatccccg actgtgtgct tcctgctgcg gcagcggcct cacgcttgct tgcttctctc 1260
tctccaggtc aaacgatcaa ggagcaaagg cgggctggcc ggccccgacg gcaccaagtc 1320
tgtctttggg cagatgtgtg ctaagatgag ctcgtttggt cccgacagcc tcctccttcc 1380
tcaccgtgtc tggaaagtca agtttgtggg tgagaacttg ccacgtgctg gagcacctgt 1440
gtccccggca gtggtgcct gagccacag ggagcacaga ggccacatgg tgtgggagcg 1500
ttggggctct ctttacacag gactgtgtga ggggacttcg agtggctgct tctcccctgc 1560
aggtgaatct gtggatgact gtgggggcgg ctacagcgag tccatagctg agatctgtga 1620
ggagctgcag aacggactca cgcccctgcc gatcgtgaca cccaacggga gggatgagtc 1680

tggggccaac cgagactgct acctgctcag cccggccgcc agagcacccg tgcacagcag 1740
catgttccgc ttcctgggtg tggtgctggg cattgccatc cgaaccggga gtcccctgag 1800
cctcaacctt gccgagcctg tctggaagca gctggctggg atgagcctca ccatcgcgga 1860
cctcagttag gtaactccct ggggcggcag gcggggcctc tagggtcttg ttaacaggca 1920
cagtctgttc tgcgggtccg gtcaggctgt gaactctggc ctaatctcag tgcccaggtg 1980
acgcagaggc tggtggctgt ggaccacctt tgagtagc 2018

<210> 856

<211> 2128

<212> DNA

<213> Homo sapiens

<400> 856

ggctctgcca gggattaaag tctggtgagt tcatcttgga tactaaaacc ccattgagaa 60
ctggactcaa gggctctcca tagcctcttt tgagaagatg agtttcagct tcccttgccc 120
tgctaaagcc ctgggctagg gaccagctcg gccacaaaag gcctgcttat ctttctcac 180
ctgtttctgc attatcacta ctgaaatccc caggttggca ggaacaaatg gcctggactg 240
gcaagtggt tactggggtc gtctttaagc acaagtttg attctttttt ttttttttt 300
ttttgagacc ggatctcact ctgtcactca ggctggaatg cagtcagtgg caggtgtgat 360
catggctcac tacagcgcaa cttctggggc tccagcaatt ctctacctc aggtcctcaa 420
gtagctggga ccaaaggcat gcacaacat gtcaagctaa tttttgtgtt tttggtagag 480
acaggatttt gtcattatgc ccaggctgat ctggaactcc tgagctcaag taattcacct 540
gcctcagcct ccaaagtgc tgggattaca ggcatgagtc accacgcca gccacagat 600
gtcacttctg ctttccatt attactcagc tttctgaatg ccagttgctt ctagcatagt 660
gcctgctcta gagaaccct caggaacca ggctatctt tctgtgtgt tccactctac 720
acctaagttg ctgtgatgga gccatgtggt cggggtcagg gttcccactg cactttctgc 780
agtgtccca gaactcagta tgtactggga agggcctgct gtcgtgacag cctctctttg 840
gggccagctt ctgcttttgc cccatcttt gcagtacagg gggtaaatta aacaagagga 900

tgctgaatg aacgatatcc tgggttcttg agagacaagt gggagctgat aattctgaaa 960
attcattagt caaagcatgg agataaaggt ggcagcagga aggggagagg caaggagtag 1020
accctgaca gttttagaat cttatttgtg ccaaaatact ttactgcatt ggcttggacc 1080
tctaatacaa tgttgaattg ttaacatga tagcactgta tcctggtcta attcctgaat 1140
tgaatggcta gtcttaccat taagaatgct atttgcggcc aggcacggtg gctcacacct 1200
gtaacccac cactttggga ggccaaggca ggtggatcac ttgaggtcag gagtttgaga 1260
ccagcctggc caacatggtg aaaccccgtc tctactaaaa atagaaaaat tagccgtgtg 1320
tggtggcggg cgcctgtaat ccagctgct ctggagtctg aggcaagaga atcacctgaa 1380
cctgggaggc agaggctgcg gtgagccgag atcgaccac tgcactccag cctgggcaac 1440
agagcgagac tccgtctcaa aaaaaagaat gctatttgct atgatttttg gatgatattc 1500
ttataatatt aagggatgtc ccttccttgg attttgcttt ttaagggaag gtaatgtcta 1560
agataagcct ttgaaatctt gaaattcaga gtgatttggg atttatagag agctgtacag 1620
agcattggtg attgttattc cttgagttct taaaacgtaa accaggcctg ggcccttctt 1680
tcctctgtgc ccaactctca tcctctgtgg tttgtggttt cagttattgc cttgtctgtc 1740
aagatccgca gttatgaaga acacttggag aaacatcgaa aggacaaagc ccacaaacgc 1800
tatctgctaa tgagcattga ccagaggaaa aagatgctca aaaacctccg taacaccaac 1860
tatgatgtct ttgagaggat atgctggggg ctgggaattg agtacacctt cccccctctg 1920
tattaccgaa gagcccaccg ccgattcgtg accaagaagg ctctgtgcat tcgggttttc 1980
caggagactc aaaagctgaa gaagcgaaga agagccttaa aggctgcagc agcagcccaa 2040
aaacaagcaa agcggaggaa ccagacagc cctgccaaag ccatacaaaa gacactcaaa 2100
gacagccaat aaattctgtt caatcatt 2128

<210> 857

<211> 2336

<212> DNA

<213> Homo sapiens

<400> 857

agataagcca gagtcccagg gtctttcttca cgccccatta ccgccccag gttcctcgac 60
caaggtctgg acgacaacta ttgccggagt cctgacggct cccagcggcc atggtgctac 120
actacggatc cgcagatcga gcgagagttc tgtgacctcc cccgctgcgg gtccgaggca 180
cagccccgcc aagaggccac aactgtcagc tgcttccgcg ggaaggggtga gggctaccgg 240
ggcacagcca ataccaccac cgcgggcgta ccttgccagc gttgggacgc gcaaatcccg 300
catcagcacc gatttacgcc agaaaaatac gcgtgcaagt gaggtggggg ggcgggcgtt 360
gggacgtgct gctgcgggtg agacgggagg agggtagtca cgggcttagg gctggaggct 420
ggcgggctag ggctgagtgc agcgcctgct tagagacctt cgggagaact tctgccggaa 480
ccccgacggc tcagaggcgc cctgggtgctt cacactgcgg cccggcacgc gcgtgggctt 540
ttgctaccag atacggcgct gtacagacga cgtgcggccc cagggtgagg cccaagcttg 600
ggggctacag agccggggct ggaagcctgg aaccgaaggg ccggggcgag gtctcggcct 660
gatggctgcc tgcacccgcc gcagactgct accacggcgc gggggagcag taccgcggca 720
cggtcagcaa gaccgcaag ggtgtccagt gctgggtccgc tgagacgccg cacaagccgc 780
agtgagtcct tgggtctcct ggccccgcca gggccctaac cctggggcgg catgctttga 840
tgtctgggac cagagcctgg aaatggttga gactaccctg ccacgatttt gctcccgtc 900
ccgcctcggc tcacgtttac ctccgaacca catgcacaac tggaggagaa cttctgccag 960
accagatgg ggatagccat gggccctggc gctacacgat ggaccaagg accccattcg 1020
actactgtgc cctgcgacgc tgcgtgatg accagccgcc atcaatcctg gaccccccc 1080
caggtttaga gttgggcccag ttatgggtca ggccctttag cccacgacat ccacacagtc 1140
tgggtttcat ccagcccacc ccatactaca gaccagggtgc agtttgagaa gtgtggcaag 1200
agggtggatc ggctggatca gcgtcggttc aagctgcgcg tggctggggg ccatccgggc 1260
aactcacctt ggacagtcag cttggggaat cggtgaggca caactgcctg tctcccacag 1320
agaggagctg aggttgtgtc ctctgtggtt atgccactgg gggctgggaa tctatccctg 1380
ccccagagg tcctagccag aagatggcag gtctagcatc tgtcccagga gtctgttccc 1440
tgtcctaatt cccactcct ctaggcaggg ccagcatttc tgcggggggg ctctagttaa 1500
ggagcagtgg atactgactg cccggcagtg cttctcctcc tgggtgagcct cccttgtgtt 1560
tggggacca gtctcatccc accttccctt tccccaggc aagctaacia gtgagccttg 1620
gggcaatgga ctgagagtca caaatgacct agcagagctt ctctcccagc catatgcctc 1680
tcacgggcta tgaggtatgg ttgggcaccc tgttccagaa cccacaacat ggagagccag 1740

gcctacagcg ggtcccagta gccaagatgc tgtgtgggcc ctcaggctcc cagcttgtcc 1800
 tgctcaagct ggagagatct gtgaccctga accagcgtgt ggccctgata tgcctgccgc 1860
 ctgaatgata tgtggtgcct ccagggacca agtgtgagat tgcaggctgg ggtgagacca 1920
 aaggtacggg taatgacaca gtcctaaatg tggccttgct gaacgtcatc tccaaccagg 1980
 agtgtaacat caagcaccga ggacatgtgc gggagagcga gatgtgcact gagggactgt 2040
 tggccccctgt gggggcctgt gagagtgact acggggggccc acttgcctgc tttaccaca 2100
 actgctgggt cctggaagga attagaatcc ccaactgagt atgtgcaagg tcgcgctggc 2160
 cagccgtctt cacgcttgct tctgtgtttg tggactggat tcacaaggta atgagactgg 2220
 gttaggccca gccttgacgc catatgcttt ggggaggaca aaacttgtaa gtacagtcaa 2280
 ggacaagact tgtactcaa gttgagattt aataaaatta atatttttac tacttc 2336

<210> 858

<211> 2322

<212> DNA

<213> Homo sapiens

<400> 858

agagcggcgg cttctctcgc gaggacggac gccattatcg catctccccg acaaacacca 60
 cgagaattcc gcagcccaca cggtagacaa aagccagccc cactgtgagt tgaactcttt 120
 cgtgttgacc ggccactctc cgtgctctgg atgatgtcgg aacacgacct ggccgatgtg 180
 gttcagattg cagtgaaga cctgagccct gaccaccag ttgttttgga gaatcatgta 240
 gtgacagatg aagacgaacc tgctttgaaa cgccagcgac tagaaatcaa ttgccaggat 300
 ccatctataa agtcattcct gtattccatc aaccagacaa tctgcttgcg gttggatagc 360
 attgaagcca aattgcaagc cctggaggct acttgtaaact ccttagaaga aaagctggat 420
 ctggtcacga acaagcagca cagccccatc caggccccca tgggtggccgg ctccccctctc 480
 ggggcaaccc agacgtgcaa caaagtgcga tgcgctgtgc ctgggcgtcg gcagaacacc 540
 attgtggtga aggtgccggg ccaagaagac agccaccacg aggacgggga gagcggctcg 600
 gaggccagcg actctgtgtc cagctgtggg caggcgggca gtcagagcat cgggagcaac 660

gtcacgtca tcacctgaa ctcggaagag gactaccca atggcacctg gctgggcgac 720
gagaacaacc ccgagatgcg ggtacgtgc gccatcatcc cctccgacat gctgcacatc 780
agcaccaact gccgcacggc cgagaagatg gcgctaacgc tgctggacta cctcttccac 840
cgcgaggtgc aggctgtgtc caacctctcg gggcagggca agcacgggaa gaagcagctg 900
gacccgtca ccatctacgg catccggtgt caccttttct ataaatttgg catcacagaa 960
tccgactggt accgaatcaa gcagagcatc gactccaagt gccgcacggc gtggcggcgc 1020
aagcagcggg gccagagcct ggcggtcaag agcttctcgc ggagaacgcc caactcgtcc 1080
tcctactgcc cttcagagcc gatgatgagc accccacctc ctgccagcga gctcccgcag 1140
ccacagccgc agccgcaggc cctgcactac gcgctggcca acgcacagca ggtgcagatc 1200
caccagatcg gagaagacgg acaggtgcaa gtaatccac agggacacct ccacatcgcc 1260
caggtgccgc agggggagca agtccagatc acgcaggaca gcgagggcaa cctccagatc 1320
catcacgtgg ggcaggacgg tcagcttcta gaggccaccc gcatcccctg cctcctggcc 1380
ccatccgtct tcaaagccag cagtggccag gtgctgcagg gtgcacagct gatcgccgtg 1440
gcctcctcgg accccgcggc ggcgggcgtg gatgggtcgc cactccaggg cagcgacatc 1500
caggttcagt acgtgcagct ggcgccagtg agtgaccaca cggccggggc acagacggcc 1560
gaagccctgc agcccacgt acagccggag atgcagctcg agcacggggc catccagatt 1620
cagtgcagg tgcccatggc accaggagcc cctcgccggc tccgcctacg gcccgcccc 1680
cacgcgcct gctctcacgg cctcggcaca ggcagcggct gcacgtgttc tgctgaagtg 1740
cgtctgaagg ccgtgcctc cgcggggaac agcatcctat gaactgaaag agcagccgcc 1800
gccgccccca gccggagacc ctttctgttt gagtctgtct gttggtgtcg gagcacgagg 1860
ggaggcacgg tgccgagagc gtgcatatg cgcgggaaat caagaactat gatatttttc 1920
tgtttaaaca gcttttttta atttgctatg gtgtttataa caaaaaagaa aatttgaaaa 1980
aaaaaatccc aggggagtag caggagccct ttgctgtgtg ctctgtccag tgtcatgaga 2040
cgggagccct ttgctgtgtg ctctgtccag tgtcatgaga cgggagccct ttgctgtgtg 2100
ctctgtccag tgtcatgaga cgggagccct ttgctgtgtg ctctgtccag tgtcatgaga 2160
cgggagccct ttgctgtgtg ctctgtccag tgtcatgagg caggtgtttg caaagccagc 2220
tctcggttcc gatggggtat tgctgacctt cttttctagg ggaaatgctc ttaaactg 2280
taattatgca tttctaataa aataaaatgt atttatgacc ac 2322

<210> 859

<211> 2406

<212> DNA

<213> Homo sapiens

<400> 859

acagactagc	caagtggctg	agacgagtgt	ggggtgcgtg	actctgcctg	cgcgcgcgcc	60
agccccgcag	ctctcgccag	agccttggga	tcaaggagg	aagagaaccg	gcagctggcc	120
tcggactcta	agcgggtgcg	agctccagcc	cgagcggatc	ggccctgaac	ccacaaagga	180
ctcctcgctc	cttcaagcct	ccaccacctc	gcagccgggg	aggcaactgg	agcgaaacca	240
gcgacagatg	cagccatgga	caagacaagg	agagcttcgt	ccctcccgcc	cctcgggttc	300
cttcctgctg	gggtctgacc	gcgtcttctg	tgcgtgtggg	atggaggccc	ggctcgcccc	360
ggctccgagc	tgtcccccg	ctccgctttc	ggagcagccc	ttgggcgctg	gagaggtttc	420
ccattgcggt	ctccaggtca	tggccaagga	ggagaagcaa	ttagaatggg	ggaaagggtc	480
ccaagacaaa	ggagagggaa	gcattctgca	atcccatcct	atttgagccc	cgcgccaggag	540
ctggactgtc	cgccgtggct	gggggacaag	gtctcagccc	gaagctcatg	aggtaccaga	600
cagtgcctgg	gcttcgccac	ctaactcaca	atgggtcctg	aaccgcccgg	gcagtccccg	660
gggtcgtaga	ctggggaccg	ctgcacccct	ccccgcccgc	aatgtccctt	ggagtccgca	720
cctgagggtc	caggcaatcg	ccgctaactt	gtagctctcg	gacacggaca	ggtgcggtcc	780
atgcctgggtg	ccggtagacg	cgcagaaatt	ccacctgtgc	gcgctgcccg	gcgcccctgg	840
ggccccctcac	ggggtaagta	gagactcatc	tgggagaggt	gaaaattccc	cagaattatt	900
gacacacacg	gcggcacacc	ctttgcctcc	gtccgcctcc	agcatccgca	tccctttctc	960
tatcttcctg	ccattgccg	tcctcgaggc	tgccctgaga	tacagaattg	tcccaggctg	1020
agtccaccga	cccgccagtc	cctggcgatg	atgccaaggc	tcttgcatgt	acggaaatac	1080
cagcaggagg	gttcgccagg	ggcagagagg	ctggaggaga	acagagaatt	ggaggtaaac	1140
gcgtaaagcc	agcagaactg	tcggtggaca	tttcaccag	gccgccctcc	cgcgtcttta	1200
agtcagttca	ccgccacagc	acgtctgtga	ctgcggccac	ccagggtctc	aagtctgcca	1260
gcccaggcgc	cgcgagccaa	gaagagcgcg	gcgcctccca	ctcctcaagc	tccggaatcc	1320

cccacatcga ctttctatth ccctgtcttc ttttcttttt tgtttgtttt gcttttcctg 1380
 ctcttttctt agcgctgggt ggcagtgggt atgcggcagc cgtgtgattt gcccatcccc 1440
 tagtacacgc agccagcgac acaagcacac agcgaccagt cccacagctg tgccacacac 1500
 cctccagcgg tccggcgcg cagccctgtc ccacagcccg ggacgcctgc agccaccgcc 1560
 agggatcatg ccatggccca cgcagggctc tgcgggtgga gaggggaagt cagcctagac 1620
 tccagagaga aaccctgggg caaccgaaa ggcctgagga aaactggaat tggggtagg 1680
 catgagggga gggagtctct ggggaaaacg ggccgggctg tgcggagccc tgagggtcc 1740
 tgcggctgca gcgctgcagg ccgcccgcgt ctgccccgc cccgccgtg ggcgtccccg 1800
 ccaggagccc acccgcgggc ggcagctttt ctccatgtg cccagggaag ttcgatgcct 1860
 ggtgctggga tgcgccagcg cttctgttcg cttctggcaa tcctggcgtc tccaatgag 1920
 agggctctca aaatgaagct ttaataaac tccagagtaa ggaactcggg attgtgcggc 1980
 aaaggccgcg cattgcactt tgtgagcaat cggtaaatat gcgcaaccat atgataggaa 2040
 atatatgcat tttcattgat aagaaaaaaa gagatgatgg tatttttaa cagaagccac 2100
 aaacaggcat acctgtgcca ttgttgggga gctaataata aaggcactga tgatcacagg 2160
 agtaagaaca attgacttgg ccaagagaca attttaagct gggaactgta ttcggctgca 2220
 gttcagaaag tggacttttg agacttgtca aacgaatgga agaattttgt gccaacaatg 2280
 tcccagcttt gcaggcttgg cagctgagga ctgagaagta acaaattgat gccaggtgaa 2340
 ttattattgt tactactatt atcaaaatgt gttccagttg cagcaatata atggataagc 2400
 aacttc 2406

<210> 860

<211> 2297

<212> DNA

<213> Homo sapiens

<400> 860

agtccccgt gagactgagc agacgcctcc aggatctgtc ggcagctgct gttctgaggg 60
 agagcagaga ccatgtctga catagaagag gtggtggaag agtacgagga ggaggagcag 120

gaagaagcag ctgttgaaga gcaggaggag gcagcgggaag aggatgctga agcagaggct 180
gagaccgagg agaccagggc agaagaagat gaagaagaag aggaagcaaa ggaggctgaa 240
gatggcccaa tggaggagtc caaaccaaag cccaggtgag tggggaggca cctgggtaga 300
gccgggagca gaggctcagg gagagaggat gatgatggaa cagggtgcag tatggtgcag 360
tggacacggg ctgggggttt ggtgggcaca gagcaccaca gtacagttgt acaagttgtg 420
tactgcacaa gcgtctcttc ctaaggagat gagtgagggc tgaattccac ccaacactcc 480
atcaccaatc gtgcacccta gcagggatgg ggctatgttc ttctagagga agggccctga 540
acggacactc tcctctctca cagtatggcc agaacaccct cctccatggc cgagggtggga 600
ccttgggatt aagggaagca aattgtgggg agccaaacaa tgaaaccgtg ccagcatagg 660
catggcggct tcagagagct gagagagggc aggacggctt ggtgccacac acgtgaagcc 720
cacctgaagg tgggtgtgtgc tggggggggc tgggggatag ggagcatttc ctttttatg 780
atgccaaccc tgccagcaga ggttgaccca tggcacctct gccactcac aggctcttcc 840
catttcagtg gggccttctg aaaccagccc aagacatccc agatccattt atttgcccag 900
tgccttcccc cttcctggcc tcttgtgcac tgcggtatct catttcagct ccacacacct 960
gagggcagat ggggacatga agaatcagag aacccccctg gtctcagtat gtgttgggac 1020
caggacaaa ctgcaagact cccaggttca tggccagttt ctgcggggtc caccagggga 1080
tttgaagtcc aagaagcatg gcattctgtc acagcttctt tgattccaag ttgtgtggct 1140
ttgagcaagt cattctacct ccctgagcct cagttctcct aagtgagatt aacggtaccc 1200
acttcatggg catatcatga gcatgaagtg aaatagcata tgtgaaagag ctttgtgtat 1260
tcccaggtgc tgagcaaggc tgaggactgc cattgttgac gtcagtgtta ctatcattgc 1320
tgtggttggc cggggcagtg ctggaagatt ctctaggaag gatcagggcc ctgcctgtcc 1380
tggacaccct cagtccttgg gtccagaatg gggctgatgc tgactattcc tctctccaac 1440
aggtcgttca tgcccaactt ggtgcctccc aagatccccg atggagagag agtggacttt 1500
gatgacatcc acgggaagcg cacggagaag gacctgaatg agttgcaggc gctgatcgag 1560
gctcactttg agaacaggaa gaaagaggag gaggagctcg tttctctcaa agacaggatc 1620
gagagacgtc gggcagagcg ggccgagcag cagcgcatcc ggaatgagcg ggagaaggag 1680
cggcagaacc gcctggctga agagagggct cgacgagagg aggaggagaa caggaggaag 1740
gctgaggatg aggcccggaa gaagaaggct ttgtccaaca tgatgcattt tgggggttac 1800
atccagaagc aggcccagac agagcggaaa agtgggaaga ggcagactga gcgggaaaag 1860

aagaagaaga ttctggctga gaggaggaag gtgctggcca ttgaccacct gaatgaagat 1920
cagctgaggg agaaggccaa ggagctgtgg cagagcatct ataacttgga ggcagagaag 1980
ttcgacctgc aggagaagtt caagcagcag aaatatgaga tcaatgttct ccgaaacagg 2040
atcaacgata accagaaagt ctccaagacc cgcgggaagg ctaaagtcac cgggcgctgg 2100
aaatagagcc tggcctcctt caccaaagat ctgctcctcg ctgcacactg cctccggcct 2160
gcactcccc agttcccgga ccctcctggg caccacaggc agtcctgtt tggaaatggg 2220
gagctggcct aggtgggagc caccactcct gcctgcccc acaccactc cacaccagta 2280
ataaaaagcc accacac 2297

<210> 861

<211> 1597

<212> DNA

<213> Homo sapiens

<400> 861

atcatccaac aaccacatcc cttttcaaca gaggcctctg cgaggaaagt gcttcacat 60
ggactggacc tggagggtct tctgcttgct ggctgtagct ccagggtgtc agtcccagga 120
gcagttgctg cagtctgcga ctgaggtgaa gcagcccgtg gactcagtga aagtctcctg 180
cagggcatct gaagacacct ttaccagttc ctattttcat tgggtgacgac aggccctgg 240
acaaggcctt gagggtgatg ggataatcaa ccctgggtggg ggtcgaacaa actacgcaca 300
gaaattccag gacagagtca ccatgacatg ggacatgtct tcgggcacag tctacatgga 360
actggacatc ttaacctctc aagatacggc cgtgtatttc tgtgcgaagt ctcggggggg 420
ctattatgat gcggaggaca actggttcga cccctggggc ctgggaacgc aagtcacgt 480
ctcctcagca tccccgacca gcccgaaggc cttcccgtg agcctctgca gcaccagcc 540
agatgggaac gtggtcatcg cctgcctggg ccagggttc ttccccagg agtcactcag 600
tgtgacctgg agcgaagcg gacagggcgt gaccgccaga aacttccac ccagccagga 660
tgcctccggg gacctgtaca ccacgagcag ccagctgacc ctgccggcca cacagtgcct 720
agccggcaag tccgtgacat gccacgtgaa gcactacacg aatcccagcc aggatgtgac 780

tgtgccctgc ccagttccct caactccacc taccatct cctcaactc cacctacccc 840
 atctccctca tgctgccacc cccgactgtc actgcaccga ccggccctcg aggacctgt 900
 cttaggttca gaagcgaacc tcacgtgcac actgaccggc ctgagagatg cctcaggtgt 960
 caccitcacc tggacgccct caagtgggaa gagcgctgtt caaggaccac ctgagcgtga 1020
 cctctgtggc cgctacagcg tgtccagtgt cctgccgggc tgtgccgagc catggaacca 1080
 tgggaagacc ttcacttgca ctgctgccta ccccgagtcc aagaccccg taaccgccac 1140
 cctctcaaaa tccggaaaca cattccggcc cgagggtccac ctgctgccgc cgccgtcgga 1200
 ggagctggcc ctgaacgagc tgggtgacgt gacgtgcctg gcacgcggct tcagcccca 1260
 ggacgtgtg gttcgctggc tgcaggggtc acaggagctg ccccgcgaga agtacctgac 1320
 ttgggcatcc cggcaggagc ccagccaggg caccaccacc ttcgctgtga ccagcatact 1380
 gcgcgtggca gccgaggact ggaagaaggg ggacacctic tcctgcatgg tgggccacga 1440
 ggccctgccg ctggccttca cacagaagac catcgaccgc ttggcgggta aaccaccca 1500
 tgtcaatgtg tctgttgtca tggcggaggt ggacggcacc tgctactgag ccgcccgcct 1560
 gtccccaccc ctgaataaac tccatgctcc cccaagc 1597

<210> 862

<211> 1926

<212> DNA

<213> Homo sapiens

<400> 862

agtctgctcc cacgtgaca gccttctcct ttgactgtgc cagagaagcc tgccctccgc 60
 tgaaagaaga ggaccagaag gagatcggca ccaagctaac tcattacctg cggtgctcac 120
 gttgggtct cctgaatggg aagaagagga ggagatggat cttagagcct gtaaggagtt 180
 gaggcctttc tcgaaccgg agctggggct gagggatgca ctccagtgcc tcaacagcag 240
 tgactggcag atgaaggaga aggggtctggg gagcatccag cgcttggcag cctgtcactc 300
 agaggtcctc accgggaagc tgcacgacgt gtgcttggtg gtgactgggg aggtcaccaa 360
 cctgcggtcc aaggtgtctc acctggccat cagcaccttg ggagacctct tccaggcctt 420

gaagaagaat atggaccagg aggccgagga gatcgcccg tgcttgctgc agaagatggc 480
 ggacaccaac gagttcatcc agagagcagc cggccagtct ctgaggggcta tggaggagaa 540
 tgtgaccctt gcccgtccc tgggtggctct cacctcggcg ggtgtctacc accggaaccc 600
 cttgatccgg aaatacgcg ctgagcacct ctcagctgtg ctggagcaga tcggcgctga 660
 gaagcttctc tcgggcacca gagacagcac agacatgttg gtgcacaacc tggtaggct 720
 ggcacaggac tccaaccagg acaccagatt ttatggccgg aagatgggta atatcttgat 780
 ggcgaaact aagtttgatg catttctgaa gcaatctctc ccatcttacg acttgagaa 840
 ggtcatggcg gccattaaac agcagggaat agaagataat gatgaactc cctctgcaa 900
 aggctgcaag gtgttgagga gtctgggtgt gtgtgagaac gggctgcca tcaaggagg 960
 gctcagctgc aatggcccaa ggctgggtgg gctgcgctcc aactgcagg gccgcgggga 1020
 gatggtggag cagctacggg agctgacacg gctgctggag gccaaggact tccggtcccg 1080
 gatggaaggc gtggggcagc tcctggagct ctgcaaggcc aagacggagc ttgtcactgc 1140
 ccacctggc caggtctttg atgctttcac cccaaggctt caggattcca acaagaaagt 1200
 gaaccagtgg gcgctggagt ccttcgcaa gatgatcccc ctctcagag agagcttaca 1260
 ccccatgctg ctctccatca tcatcactgt tgcagacaac ctcaactcca agaactcagg 1320
 gatttacgt gctgccgtgg ctgtgctgga tgcgatggtt gagagcctgg acaacctttg 1380
 ccttctacca gcgcttgctg ggcgagtgcg tttcctgagt ggccgtgcgg tgctggatgt 1440
 cacagatcg ctggcagtgc tgggtggcctc agtttacc cggagcctc aagctgtaga 1500
 gcggcatgtc ctcccatcc tctggcactt cctgaacacc gccaccagga atggcgccct 1560
 gcctgtacc agcggaaca tccgcggggt ggtgtgccgg ctgtccagga gcctccagga 1620
 gcacatgggc tccgcctgc tggactttgc cgccagccag ccaaagcacg tcctcaagac 1680
 gctccaggaa ctcttagact cagagtcctt gggaggcagc cgcaaggcca ctgacagagg 1740
 ggtggcccct gacagcaaga caactggcag ctcataccct tttcagctgg attaaagatg 1800
 ggtctgaaat gggcaattat tatttatctt attttttga tggactattc tcctggttac 1860
 tttccccctt agagttccag atgtacatgg tatattttga agtagaaata aaagaattac 1920
 ttattt 1926

<211> 1776

<212> DNA

<213> Homo sapiens

<400> 863

```
attcaacatg tctcaagtca ttgcatctgg agcagatctt attgctcaaa cactaaagaa 60
ccaaggcggt caagtcattt tcggtattgt aggtatccct gtggttgaag tagctgaagc 120
ctgtgttgct gctggcattc gatttattgg ctccgtaac gaacaatctg ctgcttatgc 180
agcttcaatt tacggctatc tcagtggccg tcctgggtgtg tgtttgagtg taggtggtcc 240
tggtgttggt catgcgctgg ctggtctgct caactccaag atcaattgct ggcctcttat 300
cctgctgtct ggttcttgcg agacagatca gacagacatg ggcgcattcc aagagctgga 360
ccaagtggaa gcagccagac agtattgcaa atacagtgtc cgacccgctt cattggaaca 420
attgccgttt gtcattgaaa aggctttcag aacagctttg tatggtagac ctggtgctgc 480
ctatgtggat ttaccagcag attacattca atacccatt accaacaaaa aggtgtttga 540
tgctgttcaa gtagcccggt tgccaaatgc gcccaaattc atggctgacc aaaccaatgt 600
acaccaagct gttgccttgc tgaaacatgc caagagtcca ctcatgtca ttggcaaagg 660
agcggcatat gctcgtgccg agaacgaaat cagagcactt gttgaaaaga cacaggctcc 720
atttttacct acacctatgg gcaaaggcgt tatttccgac agccatccat tgtgtgtctc 780
agctgctaga tcaaaagcat taaaggacgc tgatgtcggt cttttgattg gcgcacgttt 840
gaattggatc cttcactatg gacactcgcc tcgttggagc aacaagggtc gctttattca 900
aatcgacatt gcacccgagg aattgggcaa caaccgtcaa gacacattgc cgctcttggg 960
cgacatccaa ctcgttgttt ctcaaatac gcaagcattg actggtaaac tcagcaatat 1020
caaccctgat tacgtctctg gattagtcaa caaagtaaag caaatgtgg aaaagaccaa 1080
gacagctggt agcaagggat cagacagcgc tattttgaac tattcaactg cttttacagt 1140
catcaagagc ttgcttcccg aaaacgacat tgtctatgtg agcgaagggt ccaataccat 1200
ggatattggc agatcttact ttgacgttca tgagcctaga catcgtttag atgcaggtac 1260
aggtgctact atgggtgttg gtatgggtta tgctattgga gctcagtctt actacggtga 1320
tgccaagcga gtcgtcagta ttgtgggtga ttctgcgttt ggtttctctg ccatggagtt 1380
ggaaacagcc attcgctctc gtctgccact cttgatcatt gtcacaaaca acaatggtat 1440
```

ctatcacggc ttggaggacg aagaatacca tgctgccctc aaggacggta ctttaccac 1500
tacctctctc tctgttgaaa ctcgctatga cttgatttca gaagcgtgcg gtggtaaagg 1560
ctggtttgta aagaacagag ttgaattagc aaaggctgtc aaggaagctt tagctgccaa 1620
agatcaaacg tgtgtgggta acgtcatgat tgctccagga ggaagaacta aattagattt 1680
cggttggatg caaaagacac aaaaagctag attgtagagt gaatagagaa taaaaccgtc 1740
agttgacaag tatccattgc catagcccaa aaggct 1776

<210> 864

<211> 2898

<212> DNA

<213> Homo sapiens

<400> 864

attatgccaa aagtgtatag tcgtaaggat ccgttacttt tctgcaggcg tttttagga 60
ggtattttga ttgcccgtaa gattttctgg cctttggaaa atgtgctcct gaaaagtga 120
atgcttgccg aaaaggtaat gaagaaggaa aatcacatct tgagtgttga tgatctggaa 180
caggctttgg agctgactga caaggatgat atcaaggacg aacagagcat gctgaagggt 240
attatccgct ttggtgatga gactgccaaa gaggtaatga cgagccgaca gaatatagta 300
gatttggata ttcatagtac ttatcctgag gttctgaaat gtatcgcgga aaataactac 360
agtcgtattc ctgtttatca ggataatacc gacaatattc gcggcatcct gtatatcaag 420
gatttgcttc ctcattttaga aaaaccggtc tctttcagat ggcagagtct gattcgtccg 480
ccttattttg taccggagac caagaagatt gatgatttgc tgagagaatt tcaggagaat 540
aaggtacata tcgccatcgt ggtagatgaa tttggcggca caagcggat cgtaactctt 600
gaggatattc tggaggaaat cgtaggcgaa attaattgat agtatgatga ggaagaaaag 660
ttctactcca agttgaatta taatacatTT atttttgagg gtaagacttt actgacagat 720
ttctgcaaga ttctgaatgt tgatgatgag gaatttgagg aagtggaagg cgatgccgat 780
actttggccg gattgttgct tgaaatcaag ggtgattttc caagcatcca tgagaaaatc 840
gaatataaga attattcttt tgaggttttg ggtgttgagg aacgccgtat cagtaggatac 900

aaagtgggtgg ttcattcccgg taaataattt gttgaggctt tttaagattg attataataa 960
gaaagaggggt cgagattgct ataattctga ctctcttttg tttttctcga ttttttttcg 1020
taattttgtc ccctgtaaaa tcaattgggt atggcattaa taaacgtaag agaagtttat 1080
cctggagtac atttgggatt gtggcaaadc ggggagcttg taaacgactt tctggagagc 1140
tattccttga tgaaagttaa tattaagat ttggaacttt ataaaagtga agggcgaaag 1200
ttggagtttc ttgcagtcag agctttactt agagggatgc ttctgatagc tggatattct 1260
gaggagcaga taggtaaaat cggagaaadc acacatgata agtgcggcaa acctttgctc 1320
aacaagttaa atatcagtat ttctcatacc cggggttttg cttccgtcat tatttctaaa 1380
agacgttctg tagctgtaga tatagaatat tataatgata ggggtggagcg tatcgcttcc 1440
aagtttttga gaaggacga aaaggctgaa gggctggatg ctttgctggg tcatgtgtgc 1500
gctaaagaaa ctttctataa attgttttcg gcagagaatt tgcaatatgg ggagatgcgg 1560
ctgaaaccgt tcgaccctat gatggattgg aattgcgaag ttgaaaacct gaagtcgcac 1620
aaatcggtaa atgtggactt tgagttgact atggagtttg ttcttactta tgcggctttg 1680
taaactatgc ttcggaatat ttgtctaact tgtttcttgt gtttcgggta tcaggtgctt 1740
tggtctgata ctttacaggt ggtgcggggg gatgttgagg taggtcaatg gactgtcggt 1800
cgggagtttc ctcagaaadc ctattcccgg ttgtaccag caggaaacta tagtggcatt 1860
actcatttgc atgatgatat ttatgcggta gtaagcgata agtctgatag tgccttgttt 1920
ttcaagtttc gcatccaggt agatgaactt acgggagaaac ttcggcatgt ggagaatctg 1980
gggtatgatg cgatggtgga tggaagctgc tatgacggga aatcttgatg aggcaagaat 2040
aggggctttg atcatgaggc gattgcaaag gtttccgatt ctaccctgat ggtggcaagt 2100
gagggatttt tctgtatcag ggagtttttt atcaatcctt catcccggaa tgcggaatgg 2160
aattcccac tcagaaagat agattgcccg tctgctgcgt ttgctcctaa ctatgcgttt 2220
gaatctttgg ctttcgattc tgtccgtcat aacctttgga tgattcctga aagtacgctc 2280
cagaaggatg gggaacctgc aacgccacag aatggaggcg caaataaact acgcctgatg 2340
aggattgata ttggagatct gaagggaata gatgctcaac atttgagggg gataggtgtt 2400
ctgaggcaga atagtatga ttcatattct gtaaatgttg ggggaaaaca ctttatggaa 2460
gcttatgcct accggatgga taagcctact acgaaaaaga aggctgaaac gtatgtgatg 2520
gggtgttagcg aattgtgtgt cttgccggat ggctcagttgt tggctttgga gcgtgaagct 2580
tttattccaa agatgaaatt gggagcattt tgtaagtga agttgtattt gattaatccg 2640

ttgcaggaga atccgtatcc tattgagcaa tctttctgcg aagctacacc ttatattaat 2700
 aagcatttgc ttttagaatg gaagaccggt ttgtcggttt ttgaccgctc gtttgcaaat 2760
 tacgaaggaa tgtgcctggg accgaagtta aagaatgggtg atcaggtggg gattctactt 2820
 tctgattccc aagaccaata tgcaggcggt cttaaagact ggtttaaac ggttgtggta 2880
 agagaaatta gaaagacg 2898

<210> 865

<211> 2248

<212> DNA

<213> Homo sapiens

<400> 865

tatgatccaa gtaacacaga agaaattgca aatgggttgc tttttcttaa ttcaagtcac 60
 atttatgaaa aacaagacag atgttgccac aagacagtgc attccatggc atcaaagttc 120
 acggatgggtg acctgaacaa tgatggctct catgatgaag gcttacgctc tagtcagcaa 180
 aatcccaaag tacagaaata cattagcttc agcctcccgc tgtctgaggc aactgcacac 240
 atttaccag gtgacagtgc cgtggccaac aaacaacca gccacagct ttccagtga 300
 gactctgaca gtgactatga actttgcca gagataacct taacctacac cgaggagttt 360
 tcagatgatg acctggagta tctggaatgt tctgatgtta tgacggatta ctctaattgca 420
 gtttgcaaaa ggaacctgct ggggactgag catgtttttt tattagaaag cgatgacgaa 480
 gagatggaat tcggtgagca ttgcctgggt ggggtgtgagc atttcctcag tggaatgggt 540
 tgtgggtctc ggggtgtcggg tgacgctggg cctatggttg cactgctgg cttctgtgg 600
 catcactcac aacccaaga agttgggggtg aggagcagca gagtctcaa gcacgggtccc 660
 tcatccccac aaacagggat gactctcatt ttgggacctc accaggatgg aacgtcttca 720
 gtgacagaac aggggagata taaactcccc actgctcccg aggctgctga aaatgattat 780
 ccaggaattc aaggagaaac cagagacagc caccaagcaa gagaggaatt tgccagtgc 840
 aatctgctca acatggatga atcagtaaga gagacagaga tgaagctctt gtctgggtgag 900
 tcagaaaact cagggatgag ccagtgttgg gagacggcag ctgacaagag agtggggggg 960

aaggacttat ggagcaagag gggttcaagg aaatctgcca gggtagaggca gccgggaatg 1020
aagggaatc ccaagaagcc gaatgccaac ctgagagaaa gtacaacaga aggtaccctt 1080
catctctgct ctgccaaaga atctgctgag cccccactaa cccagagtga taaaagagag 1140
acttctcaca ccacagcagc agcgactggg cggagttccc atgctgatgc aagagaatgt 1200
gctatttcaa cccaggcaga gcaagaagca aaaacccttc aaacttcaac agactcagtc 1260
tccaaagaag gcaacacaaa ttgcaaggga gaaggcatgc aagttaatac tctatttgaa 1320
acaagccagg ttccagactg gagtgatcct cctcaggtaa gacttttctt ttaaagaaat 1380
tacgagataa aaagaaccgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgcgcgcgc 1440
gtgcgcgcgt gtgtgtgtct ctccctttac ttcacattca caattgctat accataatgt 1500
aaatcaaaat aagtttccca acaccatcag ggtacttgtg catgacagct gctgctgctc 1560
ggaaggaaat ctggttttga aaaaaaggcc cagataaacc ctaagccatc ctaattatag 1620
caaaagactg atagaagtta agaggcacta atgggattct ggacagctgg aaaaagaaat 1680
ctgatatttt gtctgctgca tgtgttttac caggcaatgc cactattcag aaagtttctc 1740
aagcaaagt tttgggtgta gcctttaaag gaagaagggg gaaaaaaca ttgtttttag 1800
tcatttgcag ggaagtgctt tgaaaatgat aggtcttggc tttaatcaga atttgtggta 1860
tgaatgaaag acttcagtgt gtctgaaaga cttgtagact tcactttttt tgtgatgcta 1920
gggaaagcag gcagattaac tgttgccctca ctgggtgggat gtttttgatt ggatgtttgt 1980
cttattttgt ttaaaacaga gtataaaaga ggctaagaga aaaaagctg ccaagaaata 2040
aatttgtttt cccttattac tgatttggga gtgtaaagag atggaattaa atttatagga 2100
ataatcaatg cacaaaagat gttgtgcttg atacataact tatattttta atgatatttt 2160
cagtttcaaa ggggtcccaa tgagctttgg acttacgctg taatatgggc aagatttgag 2220
ttttgtaaat aaatacctaa gaaaactt 2248

<210> 866

<211> 1689

<212> DNA

<213> Homo sapiens

<400> 866

ttcttttcca gatggagtat tttgtaggga caggctgggg agcaatgcac agagagaaag 60
acggaagtgt tttctcgta tataaatcag atcggcagag accagagcca aaccctgtt 120
tatactagcc tatgagctgc ctgatttaaa gtaacctctg ttccattcc agaactctag 180
atttggagaa aaatctaagt tgaacctca gcgtggcagt cccagctgt accccctatt 240
ttttaatcac cccctcatcc ccaacttcag acctcaaagt tttggctgtt tccctttttt 300
tttttctttc ctgcccactt cgtgaacggg atggagagac ggggtcccgg gaccctgcag 360
atgggagcat gcccagggcc ctgcctgctc accgctccc cggagagcca gacaaaaaga 420
aacagcatgt ttctgaagac ttgtgtgtca ggctttgtgc acatttcaga caggagcctt 480
cacggggctg agtggacaca aagccgggtg tctgaattcc tgggcccag aactgatct 540
acatctaaac agaagaaaaa tcaattaaac aatctttgga aatccctccg agcttcgggg 600
cttctcgga ggtgaaggat ggcagctttt tatcttgtgg ccagagagga aatagccctt 660
ctccttggtt ctcctctctc cagacctgca gtttccactt tttgctttct ttttttctg 720
gagacacagt ttcgttcttg ttgcccagac tggagtgcaa tgtcacggtc tcagctcact 780
tcaacttccg cctcctgggt tcaggcgatt ctcctgcctc ggcctccctt agtggctggg 840
attgcggctg cgcaccacca ggcccggcta atttttgtat ttttagtaca gacggggttt 900
tgccgtgttg accaggctgg tcttgaactc ctgacctcag gggatccgcc cgcctcgcc 960
tcccaaagt ctgggattgc aggcgtgagt cactgcgcc agccccactt ttcactttct 1020
tcccaaagtt taggacaca gattccccac cattcgctg ccaaaaagat gccaaccttc 1080
ttagatctga ttgtttcact taaacaaaac aaaacaaagt ttaacatata tacaccaga 1140
acactcgta gtgaaatttt aggcctgata tgatggctcg cgctttagt cccagcactt 1200
tgaggaggctg aggcaaggag ttcgagacta tcctggccaa catggcaaga cccatctct 1260
aaaaaaaaa aatacaaca gccgggagtg gtggcgcagt cctgtggtcc cagctactcg 1320
ggaggctgat atgggaggat cgcctgggcc tggggagggtg gaggctgcag tgggccctca 1380
tagtatcact gcactctagc ccaggtgaca gagctagacc ctatctcaaa aaaaaaaaaa 1440
aaaaaaagaa aagaaatttg gccaggcaca gcggctcacg cctgtaatcc tagcgctttg 1500
gaaggctgag gcgggcagat cgcttgaggt caggagtcaa gaccagctg accaatatgg 1560
tgaaccctg tctctactaa aaatacaaaa attagccaga aatcacttga acccaggagg 1620
cagaggttgc agtaagccga gattgtgcca ctgcactcca gcctgggtga caaagcgaga 1680

ctctgtctc

1689

<210> 867

<211> 1829

<212> DNA

<213> Homo sapiens

<400> 867

acttccctct	ggctctcccc	ggagcagggc	ttgccgcttg	tcctcctctc	tactcacaaa	60
acctcctgg	atgggatacct	gctgcccttt	atgtgtctct	cccagggcct	gggtgtgctt	120
cgtgtggcct	gggactcccc	cgcctgtctc	cctgccctca	gagctctgct	gaggaagctt	180
ggggggcttt	tcctgcccc	agaggccagc	ctctccctgg	acagctctga	ggggctcctt	240
gccagggctg	tggtccaggc	ggcctcggcc	cccctggggc	tgtggacagg	agctctggct	300
gtcctacgta	gcttgtggag	ccgctggggc	tgcagccacc	ggatctgctc	ccgggtgcac	360
ctagctcagc	ccttttcct	gcaggaatac	atcgtcagtg	ccagaagctg	ctggggcggc	420
agacagaccc	tggagcagct	actgcagccc	atcgtgctgg	gccaatgtac	tgctgtccca	480
gacactgaga	aggagcagga	gtggaccccc	ataactgggc	ctctcctggc	cctcaaggaa	540
gaggaccagc	tcctggtcag	gagactgagc	tgtcatgtcc	tgagtgccag	tgtagggagc	600
tctgcggtga	tgagcacggc	cattatggca	acgtgtctgc	tcttcaagca	tcagaagctc	660
ctgggggagt	tctcctggct	gacggaggag	atactgttgc	gtggctttga	tgtaggcttc	720
tctgggcagc	tgcggagcct	gctgcagcac	tactgagcc	tgctgcgggc	gcacgtggcc	780
ctgctgcgca	tccgtcaggg	tgacttgctg	gtggtgccgc	agcctggccc	aggcctcaca	840
cacctggcac	aactgagtgc	tgagctgctg	cccgtcttcc	tgagcgaggc	tgtgggcgcc	900
tgtgcagtgc	gggggctgct	ggcaggcaga	gtgccgcccc	aggggccctg	ggagctgcag	960
ggcatattgc	tgctgagcca	gaatgagctg	taccgccaga	tcctgctgct	gatgcacctg	1020
ctgccgcaag	acctgtctgct	gctaaagccc	tgccagtctt	cctactgcta	ctgtcaggag	1080
gtgctggacc	ggctcatcca	atgcgggctc	ctggttgctg	aggagacccc	aggctcccgg	1140
ccagcctgtg	acacagggcg	acagcgattg	agcagaaaagc	tgctgtggaa	accgagtggg	1200

gactttactg atagtacag tgatgacttc ggagaggctg acggccggtta cttcaggctc 1260
 agccagcagt cacactgccc agattttctt cttctcctct gccgcctgct cagccccgctg 1320
 ctcaaggcct ttgcacaggc tgccgccttc ctccgccagg gccagctgcc cgatactgag 1380
 ttgggctaca cagagcagct gttccagttc ctgcaggcca ccgcccagga agaagggatc 1440
 ttcgagtgtg cggacccaaa gctcgccatc agtgctgtct ggaccttcag agacctaggg 1500
 gttctgcagc agacgccgag ccctgcaggc cccaggctcc acctgtcccc tacttttgcc 1560
 agcctggaca atcaggaaaa actagaacag ttcattccggc agttcatttg tagctagaac 1620
 tgtgaggagg agcctgtgct gagactttct agccccagaa cacagctgtg tcctagagcc 1680
 agaagatgga gaggaggctg caaaccttta gctgctctat aaatataatc attgaggctt 1740
 gattgtccct tgccatctct tgctttttcc cttctttgat gtgataaaca aggggacgag 1800
 acgagttgtc ttttccccag cccagcagc 1829

<210> 868

<211> 2295

<212> DNA

<213> Homo sapiens

<400> 868

aagacagatg cagccaatag atacactgca gtggctgaca aaccaagtaa aaggagtaat 60
 gatggaaaaa gtaaaaagg taaaaatagt tctcctgaga agcacattct ggagaataag 120
 atagatgcaa caaaaataca tgttcccatg gaaaccacag gggaccaggg aattgaagga 180
 atggcctata tggacgaaaa tagaaatatt acatttacct gtcccagaac accatcagag 240
 ctgataaata aatcatctcc tctagagggt ctgggatcag cagcctgtga aaaactgccc 300
 actcctactc ctcaagtagt aaaggaagg gattcctttc cagatacctt ggcaaaaaat 360
 gggcaagaga tagccccagc ccagatttcc aaatcattaa tggtagataa ctacaccaa 420
 gatggagtcc cagggtcaaga aagacccaag ggtccctctg ctgttgtgcc ctctacaagc 480
 acaggaggag ttgctctacc tattacaaca gccatagaaa cagtcaacat tcatggagat 540
 cactctctta agaataaagc tgagcttgct gattccatga aaaatgaagc agggatcgat 600

gaagggcatg tgataggaga atctgagtca gtgcacagtg gtgcgtctaa gcattcagta 660
gagaaagtca cagagctagc aaaaggtcac ctccttcctg gagtgccagt agaagaccag 720
agcctaccag gagaggccag agccctagaa ggatatgcag atagaggtaa tttcccagca 780
catccagtga atgaagagaa agagactaaa gaagggtctg ttgcagttca gattcctgac 840
ttactggaag acaaagcaca aaagctcagt ttttgtgagg accaaaatgc tcaagataga 900
aattccaaag gttcagatag tttgaataag aaggtagatc tgactctttt gtctccaaaa 960
agtgaaaatg ataaattgaa agaaattagt ctggcttgta aaatcacgga attggaaagc 1020
gtttccttgc caacaccaga aatccagtca gatttcttac atagcaaagt cgaagctcct 1080
ccttcagagg tggcggatac gttagtaata atgactgctt ccaagggtgt tcgactccca 1140
gaacccaaag ataagatttt ggagacacct cagaaaatga cagaaaaatc tgaatcaaag 1200
acaccaggag aagggaaaaa ggaagataaa agcagaatgg cagaaccaat gaaaggctac 1260
atgagaccca ccaagtcccg aggacttact ccacttttgc caaagtctac aatccaggaa 1320
caagagagac ataagcaact gaagtccgct ggaatagcca ggccagaaga aggaaggcct 1380
gtggtgagtg ggacaggaaa tgacatcacc accccaccga acaaggagct cccaccaagc 1440
ccagagaaga aaacaaagcc tttggccacc actcaacctg caaagacttc aacatcgaaa 1500
gccaaaacac agcccacttc tctccctaag cagccagctc ccaccaccat tgggtgggttg 1560
aataaaaaac ccatgagcct tgcttcaggc ttagtgccag ctgccccacc caaacgcctt 1620
gccgtcgctt ctgccaggcc ttccatctta ccttcaaaag acgtgaagcc aaagcccatt 1680
gcagatgcaa aggctcctga gaagcgggcc tcaccatcca agccagcttc tgccccagcc 1740
tccagatctg ggtccaagag cactcagact gttgcaaaaa ccacaacagc tgctgctggt 1800
gcctcaactg gcccaagcag taggagcccc tccacgctcc tgcccaagaa gcccaactgcc 1860
attaagactg agggaaaacc tgcagaagtc aagaagatga ctgcaaagtc tgtaccagct 1920
gacttgagtc gcccaaagag cacctccacc agttccatga agaaaaccac cactctcagt 1980
gggacagccc ccgctgcagg ggtggttccc agccgagtca aggccacacc catgccctcc 2040
cggccctcca caactccttt catagacaag aagcccacct cggccaaacc cagctccacc 2100
acccccggc tcagccgcct ggccaccaat acttctgctc ctgatctgaa gaatgtccgc 2160
tccaaggcca aagtagagaa aaaaacagag gcagctgcta caaccgaaa gcctgaatct 2220
aatgcagtca ctaaaacagc cggcccaatt gcaagtgcac agaaacaacc tgcggggaaa 2280
gtccagatag tctcc 2295

<210> 869

<211> 2557

<212> DNA

<213> Homo sapiens

<400> 869

```
agagtccact gcgcgggggc gggaccgggg agctagctgc agactccacg ttttgcaaag   60
atcgggttttg cctcagagtc aacaaactct tcagattgggt tccgggtgtgt cctatgttta  120
caagtcagtg gaaattaagc acaacacata taaattgaaa agtcaaataa ggaaatgaat  180
tacctccctt gacggctcta attttacttg gctaaagcca atttttaggt tggcttgggc  240
agaaaagtga aaagagaatg ctccacttta accgatgtca tcatctgaaa aagataacac  300
agaaatgttt ttctagtata catgttaaaa cggataaaca tgcacagcga tttctttcaa  360
gaacctttgc acttgcgga ttagaggaagt catggtattc aaccactct cttgttggag  420
acaaaaatat tatcctgatg ggacctcctg gtgctgggaa aacaacagta ggcagaataa  480
taggtcagaa actaggttgt tgtgtcatag atgtggatga tgatatcctt gaaaaaacct  540
ggaatatgag tgtgtctgaa aaattacagg atgttggtaa tgagcaattt ttagaagagg  600
aaggaaaagc tgtgttaaac ttctctgcat ctggaagtgt gatttcctt actgggtcca  660
atccaatgca tgatgctagc atgtggcatc tgaagaaaaa tggaataatt gtatacctgg  720
atgtacctct actagatcta atttgtcgtc taaaattaat gaagacagat aggattgtag  780
gtcagaattc tggaacatct atgaaagact tacttaaatt tagaagacag tattataaga  840
agtggtatga tgctcgtgtt ttctgtgaaa gtggggcttc cccagaggag gtagctgaca  900
aagtgctgaa tgcaattaaa agataccaag atgtggactc ggaaacattc atttcaacaa  960
gacacgtttg gcctgaagac tgtgaacaga aggtttcagc aaaattcttt agtgaagctg 1020
taattgaggg gttggcttct gatggtggcc tctttgttcc tgcaaaggag tttccaaaat 1080
taagctgcgg ggagtggaaa agcctagtag gagcaaccta cgtagaaaga gcacagatac 1140
tgttggaaag atgtatccat cctgcagaca tacctgctgc caggttggga gaaatgattg 1200
aaactgctta tggggaaaac tttgcctgct caaaaattgc tcctgtcagg cacctttcag 1260
```


gcaaccagtt catcctggag ttgtttcatg gaccaacagg atcatttaaa gatttgtctt 1320
tacagcttat gcctcatatt tttgcacact gtatcccacc aagttgcaat tatatgatac 1380
ttgtagctac ttcaggagac acagggagtg cagtcttaaa tggttttagt cgtctaaata 1440
agaatgataa gcaaaggata gctgtggttg cattttttcc tgagaatgga gtaagtgatt 1500
ttcaaaaagc acaaataatt ggcagtcaga gagaaaatgg atgggcagtg ggtgttgagt 1560
cagattttga tttttgccag acagctataa aaagaatttt taatgattct gattttactg 1620
gctttcttac tgtggaatat ggaacaatct taagttcggc taactccata aactggggcc 1680
gactacttcc gcaggtagtt tatcatgctt ccgcatatct tgatcttggt agtcaaggat 1740
ttatttcttt tggaagccca gtcgatgtct gtattcccac aggaaacttt ggtaacattt 1800
tagcagcagt gtatgcaaaa atgatgggaa tcccgattcg aaaatttatc tgtgcctcta 1860
atcagaacca tgttttgact gattttataa aaacaggaca ttatgatcta agggaaagaa 1920
aactagcaca aaccttttca ccgtcaatag atattctcaa atcttcaaac ctagaacgac 1980
atttacactt gatggctaataa aaagatggac agctaataagc agaattatct aatcgattag 2040
aaagtcagca tcatttccag atagaaaagg ctctagttag gaaacttcag caggattttg 2100
tagctgactg gtgctctgag ggagagtgcc tagcagctat taactccacc tataatactt 2160
cagggtatat tttggatcca cacactgctg ttgcaaaaagt ggttgcagat aggggtgcaag 2220
acaaaacttg ccctgtgatt atctcatcta cagcccatta ctcaaagttt gcacctgcta 2280
tcatgcaggc tttaaagatt aaagaaatca atgagacttc atcaagtcag ctctatttgc 2340
tgggttcata caatgcatta cctccactgc atgaggcttt attagagaga acaaaacagc 2400
aagagaagat ggagtaccag gtctgtgcag ctgatatgaa tgtcttgaag agtcatgtgg 2460
aacaacttgt ccaaaatcaa ttcatatgaa agctttcaga gtaaattttt ttttctagct 2520
ataagcatgc aataataaat ctcaaacact gatttgg 2557

<210> 870

<211> 2363

<212> DNA

<213> Homo sapiens

<400> 870

atcagctctt	ctgtgcaacc	aaaacagtgg	agctgtgaca	cagaccttat	ggcccacaag	60
gtggaaaata	gttactctct	ggctttttac	agagaaaagt	gtgccaagcc	ctgttctcta	120
cccttcctac	ttacgcagtg	ggcaaagggc	caggcgggat	gtaggctcag	gccaaacgga	180
agtgggcatt	cacccgggta	catggctgca	tgccaggagt	gtttgccaag	agaccagcta	240
gggtaggaga	tggcaagagg	gaaggaaaga	aaagcagacg	taggtgtggt	cagaaaggga	300
gacgggaacg	ggcccaacat	ccattttcaag	gtttcttttt	agagctggct	ccaacctcaa	360
aaagagggga	ggcatctctg	gccccgctct	ggcagcacag	tgacgccatc	ctcctacagc	420
ttcgggttcg	cacaatcagt	ctcatgcac	ggcacgtcca	agactacaca	gagacttcat	480
ggcctggcca	tggaccaac	cccaggtttt	tcattctcta	tgagggcaga	tcattccact	540
ccgagacaac	caatttacag	aactgagaaa	gcgacactct	gatagatgga	caaaagcctt	600
tctacttcat	gctatcaaaa	tcaacactat	taaaacttac	acactgacaa	cgtatttggg	660
caacagatgg	atgaagcagc	caagtgagag	ggcctgaaat	ctcacctgat	ggatgttaca	720
ttttcttatg	cagaacacag	aactgcttca	cttacccttc	ctgtaattac	ataaaatttc	780
caattttaca	gagaatgtga	tacggaatgg	gatataacct	tcctctctcc	tgtgttaagc	840
ctagaatgaa	tactaagcat	aaaaatggag	gaggggcgtt	gagacaacca	cccaccacgc	900
acccgcaacg	gctttgttca	cctgttcatg	cgtccccctt	acacaccgtg	agctcctcct	960
ggcacccgcg	cagcaccgag	tggctgcctt	ctctgaacgc	cctccctccc	tggcagggcg	1020
gtggaggagg	cggaggcccc	ctgcctttga	gtgtgaagac	gggaggacaa	tgagacacag	1080
ggccccactac	acctgtgtgg	ccggaagact	actttctcat	tcccctttgg	gctctgctcc	1140
cctggctgga	gctgggggtc	ttgttgtgga	aattttacat	atttaattac	tacataaact	1200
gatggccagg	ggtgagacaa	gggcagctcc	cttggcaatg	caagtgaaat	gtttcagaaa	1260
gactcgctaa	aggtgaatca	cttaaaaacg	tggctggcgg	gccgggtgtg	gtggctcacg	1320
cctgtaatcc	cagcactttg	ggaggccaag	gtgggcagat	catgaggcca	ggagatcaag	1380
actatcctgg	ctaacacggt	gaaaccctgt	ctctactaaa	aatacaaaaa	attagccagg	1440
cgtgggtggtg	ggcgcccata	gtcccagcta	cttgggaggc	tgaggcagga	gaattgcttg	1500
aaccggggag	gcgaaggatg	cagtgaggcg	ggattacacc	accgcactcc	agcctgggcg	1560
acagagtgag	actctgactc	aaagaaaaaa	aaatgtggct	ggcaagctaa	atgacattaa	1620
acacctgagg	aaaatgcagt	caactctagg	agaactctgg	gcatggatgg	cttcaccagt	1680

gtccctgtgt catggcgcca tcttgactg gaaatcaatg atgtcatcat gcatgtgggt 1740
 tacacaggag acaccatggc caaaccaca ctcagaaaag acctgcaccc aacagaaaga 1800
 ctggaagacc catgcacact cggcttttcc ttgtattttt aatgattctt ctagactttg 1860
 actttttcaa ctcactgccc aatcacttct ggagcctcac aagatctagt tcatcattct 1920
 ggactctact gtggctgtgg ggggtgaagg ttttaatcca aggtttcgaa aatcaccacc 1980
 taaaagcaag ccaaggagag tgtctcaagg aaggcgctct aggccttgat tctgacctcg 2040
 gaactctctc gcatgaataa gtggggggac accatgagcc gcccattgtg gggggaggcg 2100
 gcctggggaa tgaagggtct ggagattgtc ataagtcaaa catgtgggtt cacgtttctc 2160
 acaccagctc caccgacctt gctaaatgac tcacttttcc tgggcctcgt tttcctcaac 2220
 tgtaacatgg ggctctaacg tacatcaagt tcatgtgggt ttctcttgct ttaatttttc 2280
 ttccagcctg tagaccatgt tgagggcagg gaccctgtct tttttttttt tctttgaaat 2340
 ataccagaca ctgagtgcc aat 2363

<210> 871

<211> 1733

<212> DNA

<213> Homo sapiens

<400> 871

agtaatgtaa agtcctgcc atgaaggaga cccaaaggca gagccctca gactgcctc 60
 acaagaatct gtgaaccgcc gggccctccg acaggagaga aggaagatga tatagacgga 120
 catcctccag aaagtcaccc gggatgcctg cggcccgacc agcagtgaca aaggtggggt 180
 gaaggaggcg ccctgccacg ctgcggagtc agtcccaga tccaaaatgc ccctcgtgga 240
 gcctccggag ggaccaccag tgctctcgct ccagcaactt gaagcgtggg acttgatga 300
 catccttcag agtctggcgg gacaagaaga caaccaggga aatcgtgcac ctggaactgt 360
 gtggtgggca gctgaccacc gccaaattca agactgcatg gtgccgagcg cccacaacag 420
 gctcatggaa cagctggccc tcctgtgcac cacgcagtcc aaggcctctg cttgtgccc 480
 gaaggtgcct gccgacactc cccaggacac caaagaggca gattcaggaa gcagatgtgc 540

ctcaaggaag cggggctccc aggctgggcc agggccgcag ctggcccagg gcatgaggct 600
 taacgcagag tccccacca tctttattga cctgcggcag atggagctac cagaccacct 660
 gtccccagaa agctccagcc acagctcctc tgacagttag gaggaggagg aggaagagat 720
 ggcagctctg ggagacgcag agggggcatc tccttcctcc ctggggctac ggacctgtac 780
 cgggaaaagc cagcttctcc agcagctcag ggcctttcag aaggggacag cccagcccga 840
 gctgcctgcc agcaaggggc ccgcgggtgg gagggctcag gcccttgaag acacagctgg 900
 atcacgaact gggaggaagc aacacatgaa gctctgtgcc aaggggcaga gcgccaggc 960
 tcgactccca agaggcaggc ccagagccct gggggatgtt cctgagccag gggcagccag 1020
 ggaggccctg atgcctcctc tggagcaact atagctgcct caggatgtgt cctgctgtct 1080
 gccccgtggt aagagcagag aaatcatcac caccttgggc cccacggtgc cacgggctca 1140
 ggcagcacag tagggcgccg ggcctttggg acagtgtccc agcttcccct ggggttcacc 1200
 cctggctgcc aggccactga ggatgggcat gggctctctc tcataagcc ttgtaccagg 1260
 caaaagacag gccctgcttg gccgtggtca ctggccgcca agatcagggc tacagatgtc 1320
 tgctctctgg accccacgtg atctggccac tggggacccc caccgaccc cactcccagt 1380
 gatgaggggc attttcattg caagtcaaag gcaagacagg cttccataaa gtcccaggag 1440
 gtccctcctg tagggcacia ggccaggctg cctcccagcc cccaggccct ctcccaccta 1500
 cagagaccct cccctgcccc ctccactccg gggcctgtgc cgccagaacc gggctctgcc 1560
 cccatacgtt gccctgcag cctggcggcc tccgctgtgg ctgcctagct gtcaagagca 1620
 aaggcttttt ttttcttcaa cccattttc ttccatttct cccacctttt taatgccagt 1680
 aacctcactg agaatgtttt acagtgatgg aaaataaact ctgttccaag ttc 1733

<210> 872

<211> 2417

<212> DNA

<213> Homo sapiens

<400> 872

actgcagagt ctcctaagtc acatctcttc ctttgcaaga gtaggcgaag aaggatctaa 60

gggcttggct tgtttgaaag aaccacaccc cgaaagtaac atctttggag aaagtgatac 120
aagagcttct gcacccacct gatagaggaa gtccaaaggg tgtgcgcaca cacaatgggtg 180
cctgaagaag agcctcaaga ccgagagaaa ggactctggg ggttccagtt gaaggtctgg 240
tccatggcag tcgtatccat ctgtctctc agtgtctgtt tctactgtgag ttctgtgggtg 300
cctcacaatt ttatgtatgg caaaactgtc aagaggctgt ccaagttacg agagtatcaa 360
cagtatcatc caagcctgac ctgcgtcatg gaaggaaagg acatagaaga ttggagctgc 420
tgcccaaccc cttggacttc atttcagtct agttgtctact ttatttctac tgggatgcaa 480
tcttggacta agagtcaaaa gaactgttct gtgatggggg ctgatctggg ggtgatcaac 540
accagggaag aacaggattt catcattcag aatctgaaaa gaaattcttc ttatttctg 600
gggctgtcag atccaggggg tcggcgacat tggcaatggg ttgaccagac accatacaat 660
gaaaatgtca cattctggca ctcaggtgaa cccaataacc ttgatgagcg ttgtgcgata 720
acaaatttcc gttcttcaga agaatggggc tggaatgaca ttcactgtca tgtacctcag 780
aagtcaattt gcaagatgaa gaagatctac atataaatga aatattctcc ctggaaatgt 840
gtttgggttg gcatccaccg ttgtagaaag ctaaattgat tttttaattt atgtgtaagt 900
tttgtacaag gaatgccct aaaatgtttc agcaggctgt cacctattac acttatgata 960
taatccattc acacattcat ttattcattt attcatttat tcatttattc attcataaaa 1020
tgagtgttta gtgaacattt ttctatgtgc cagagactgc tggagaatgc ttttgcagaa 1080
aaacagaggg agcatgagca tctgtctctc ttttcttttc tttttttttt gaggcggagt 1140
cttgtctgtg cgcccaggct ggagtgcagt ggcgcgggtc cggtcactg ccagctccgc 1200
ctcccgggtt cagccattc tctgcctcg gcctccccag tagctgggac tgcaggtgcc 1260
tgccaccacg cctggctgat tttttgtatt ttttgggtga gacgggggtt cactgcgccc 1320
ggccacatct gctcttattt tccgacagct gacgggtgaa gtgcctgtta tgggctgaat 1380
tgtgtcccct caaatcgtg tgttgaagcc gtaacctaca gtacttcaga atgggagtct 1440
atttggagat agaaccttat gagaggaaat taagttgaaa cgaggacatt aggagcctta 1500
attcaatctg actgatgtcc tatgaggaaa ttcaggcagg taatgtggct cagcctgtg 1560
gtcccggcac tttgggaggg cgagggtggg ggatcgcgag gtcgggggtt cgagaccagc 1620
ctggccaacg tggatgaagc ccgtctctgc tggagaactc aaaaattagc cgggcgtggg 1680
gggtggatgcc tgtgggtcca gctactcggg aggctgaggc aggagagtca cttgaacctg 1740
ggaggcggag gttgcagtga gccgaggtca cgccattgca ttccagcctg ggcagcaaaa 1800

gcgaaactct gtctcaaaaa aggaagaaaa aaaaatagcc gggatatgtg gcatacgttt 1860
 gtagtccccg ctactcgggg ggctgaggtg gaaggatcgc ttgagtttga ggttgcggtg 1920
 agctacaatc acgccactgc actccagcct gagtgacgga gtgagacctt gtctcaagaa 1980
 agaaaattaa gaaataagta aaaggatatt tgaacacaca caaagacacc aagggtgtac 2040
 gtacacagag ggccgacat gtgaagacag caagagtgtg gccatctgca agccaaggag 2100
 agagtcctca gaagacacca accctgctgg caccttggta ttggacttcc agcctccaca 2160
 attgagagga aataagtatt tgctgtttta gtaacgcagt ctgtgccatt ttattataac 2220
 agccctagca aaccaatcat gcagtactga tgtcagtatt tgatgtactt tctgtgtttg 2280
 gtcaaaaggt tttccatttc gttctgattt attactttta gctgaaagca gactatgcag 2340
 caagatacac aagaacacaa gatatccaaa gaaggcagtg ttcttgctta ggtccaataa 2400
 attacttggg cttcttg 2417

<210> 873

<211> 1646

<212> DNA

<213> Homo sapiens

<400> 873

ctatataagt attatactac tattttcaga aatgtagcat tttactgtg tttctgaaat 60
 tggctagaat gagagataat gtgtttgggt taaaacatgg tcaaccaact gtgcatgaga 120
 gttttggatg agttttttgg tttgtttctt ttgactcttg aaacaatgta aaaacctttc 180
 aaattaaatt ctgtacgtag aagttaggca tgtcagactg tgaagcagct ctaaagcaac 240
 aaggatgaca aaaacgactc cacatttgtg actctgatgt ctacctagta acttgtttta 300
 tatggaccac gataactcat tgcaatggaa tactagagag caaattcaag atagaaaaca 360
 tttagtgatg tgaataccat aacgaggaag aagccaacgt tgggtaactg ttagcaattg 420
 ctagaatggg tcgactgaaa gaatttcaaa atctcatctg gaaaaataac aatcaagatg 480
 cttaagcac cagcacttct caaatttcat taagtgaaga gaaaggtaaa cagttcattt 540
 atcattcagt caaatttatt aagaactacc tgcagagact ccctcagcca ttaagaagac 600

cctactggtg gctgggtgct gtggctcacg cctataatcc taacactttg ggaagccaag 660
 gcgggtggat cacaaggtca ggcgctggag accagtttgg ccaacatgat gaaactgtgt 720
 ctctactaaa aatacgaata ttagccggac atggtggcat acacctgtaa tcccagctac 780
 tcaagaggct gagggaggag aattgtttga acttgggagg cagaggttgc agtgagccga 840
 gatcgcgcca ctgcactcca gcctgggtga cagagcaaga ctccgtctta aaaaaaaaaa 900
 atctcactgg tatcacttct aggctccctt tgagagcgac cgactcctgg ctgtgtccca 960
 ctgagacagt gtgaaagggt actgagaaca tgatttcatt ttcaggcctg gaacgaatgc 1020
 ttaaaacgta ctccagcacc tctccttct ctgatgcaaa gagccagaaa gacacagcag 1080
 cgtaaatgga tgagaacaat ttgaaactag accttttgga agcgaactcc tacaaactgt 1140
 catcaatgtt agcagaactt gagcaaagac ctcaaccag ccatccttgt agtaattcca 1200
 tcttcagggt gagggaaaag gagcatactc atagctatgt gaaaatatct cggccttttt 1260
 taatgaagag attagagaat attgtgagca aggcattctt tggtgggcag agcaatccag 1320
 gttcttcaac tccagcccct ggtgcagccc agctcagcag cagactttgc aaggccttgt 1380
 attcttttca agccaggcaa gatggtgagt tgaatttgga aaagggtgac attgtgatta 1440
 tacacgagaa aaaagaagaa ggatgggtgt ttggatcttt gaatgggaaa aaaggccatt 1500
 tttctgccgc ttatgtggag gagttacctt caaatgctgg caacacagct acaaaggcat 1560
 aaaacaagac tctgaacata ctaccttcac actcggtaat caacaatata gtgtggttca 1620
 aataagaata aagtgtcttt accttt 1646

<210> 874

<211> 2927

<212> DNA

<213> Homo sapiens

<400> 874

gatgcttggg gaccggctcc tcggtcacac cccagtcctg ctctgaaggt tgccgttttc 60
 caaacagaag gatggtagct agagggggaga tagcaagatt ctggagtctg gaaagccttc 120
 acttggtttc ttcagatgga ggtactgagc cctctgcctt agtggatgac aacggtagtg 180

aggaggactt cagctatgaa gacctctgcc aggccagccc tcggtacctg cagcccggcg 240
gggagcagct ggccatcaat gagctgatca gtgatggcaa cgtggtctgc gcagaagccc 300
tgtgggacca tgtgaccatg gatgaccagg aactgggctt caaagccggg gatgtcatcc 360
aggttctgga agcctccaac aaggactggg ggtggggccg cagtgaagat aaggaagcct 420
ggttccccgc gagcttcgtc agattgcgag tgaatcagga agagctgtcg gaaaactcca 480
gcagcacccc cagtgaggag caggacgagg aggccagcca gagccgccac agacactgtg 540
agaacaagca gcagatgcgg accaacgtca tccgggagat catggacacc gagcgggtgt 600
acatcaaaca cctcagggac atctgtgagg gctatatccg acagtgccgc aagcacacag 660
gaatgttcac cgttgccgag ctagccacta tttttggaaa cattgaagat atttacaat 720
tccaaagaaa gtttctgaaa gaccttgaga aacagtacaa caaagaggaa ctcacttaa 780
gtgaaatagg atcttgcttt cttcaaaatc aagagggctt tgccatctat tccgagtact 840
gcaacaacca cccgggcgcc tgcctggagc tcgccaacct catgaagcag ggcaagtaca 900
gacatttctt tgaagcctgc cgcctgtgc agcagatgat tgacatgcc atcgacgggt 960
tcctgtcac accagtgcag aagatctgca aatacccgct gcagctggcc gagctgtca 1020
agtataccac acaggaacac ggtgattaca gcaacataaa ggcagcatat gaggccatga 1080
agaatgtggc ctgtctgatc aacgagcgca agcgcaagct ggagagcatc gacaagatag 1140
ctcgctggca ggtgtctatc gtgggctggg agggactgga tatcttagac cgaagctcag 1200
aattgattca ttctggggag ctgacaaaaa tactaagca aggcaaaagc cagcagcgga 1260
cgttcttctt gtttgaccac cagctgggtgt cctgcaagaa ggacctgtg cgcagggaca 1320
tgctgtacta caagggccgg ctggacatgg atgagatgga gcttgtggac ctgggggatg 1380
ggcgcgacaa ggactgcaac ctcagcgtga aaaatgcctt caagctcgtc agtaggacca 1440
cagacgaggt ttatttgttt tgtgccaaaa aacaagaaga caaggcgagg tggctgcagg 1500
cctgtgcaga tgaaaggagg cgggtgcaag aggacaagga gatgggaatg gaaatttcag 1560
aaaaccagaa gaaacttgcc atgttaaagc ctcaaaaggc aggacatgga aagtcaaaag 1620
gctacaacag gtgccctgtg gccccaccgc accagggcct gcacccatc caccagcgcc 1680
acatcactat gccacaagc gtccccagc agcaggtctt tggcctggcg gaaccaaga 1740
ggaagtcctc gctcttctgg cacaccttca acaggctcac ccccttccgg aaatgaaaac 1800
aggaggctgt gcttccatgg agctgggtgt caagagaaga actgtctttg tttcttgtgt 1860
gcttcaatcc agggaaagt tcttggaccc agtgataaaa acttcctttt agggatcaat 1920

gaaggagaga aggtcttgga atcaccttca gtctttggag acccagctgc ctttgtggaa 1980
 gggaggagac ggtcatgaca caaagcttta tcctacacag aaacacccgt gaccactat 2040
 gagatggccc agatgtggga cccggtacca tgctctaaag cgagtgatta ggcagcagct 2100
 gaagccaccc ctgctgatga tgagcaagtg cctgctgcag gtccaaacac agcatccagg 2160
 gctttgcagt tcctaaggag tgatgagggt agaggatcac ttctgcattt gattttcaag 2220
 gatgccgtca agacgggggt gacacaatgc tgcacgtgtc tggtcacact tagaaattga 2280
 gctcttactc tcttctgtaa tactggggga cctacagctg ccgtgggggt gaccacgggtg 2340
 ttccctggca tcgtctgtgt ccacacagat gctaactggg agtgcaaatg tcatcctgca 2400
 aggttcctct tcctgcaagc aaagtggaga gaaagaagat gcattctgtca ctttcacag 2460
 ggtcctcagt gcagagcaac ttacgcatcc tcaagaatcc actgcttttc aggcaaggag 2520
 ggagaaatcc tgctgcacac tggctttgtc ccggagtcgg attccctcct gcctgcacgc 2580
 cttcagtaac tccgagcaga aatcacatct tgccacatg ctgtaacctt agaaactgct 2640
 atgcaaggct ggggtgctgtg gctcatgcct gtaatcccag cactttggga ggccaaggca 2700
 ggtggatcac ctgaggtcag gagttcgaga caagcgtggc caatatggca aagcccagtc 2760
 tctactaata atacaaaaat tagctgggca tgggtggcgca tgcctgtaat ccagctact 2820
 gggaaggctg aggtaggaga atcttttgaa tctgggaagc ggagggttgca gtgagctgag 2880
 atcgaccac tgcactccag cctgggagat acagcgagac tgtctcc 2927

<210> 875

<211> 2389

<212> DNA

<213> Homo sapiens

<400> 875

gttcgcgggg cggggagagg caggatatca cgtgaccctg cgagtggctc agatccgaac 60
 tggcggcctt tctccccttc cccacccca gtctgtcgcc caggctggca tgcaatgggtg 120
 caatgatggc tcaactgccg atagacctcc tgggctcaag tgatcctccc acttcagcct 180
 ctcagatagc tgagactaca gatgtgagcc accacgctgg gctaattgaa ttcttggcgt 240

taagcaattc ttctgccttg gcttcccgaa gtgttgagat tacagagatt aagcttcctg 300
tggagggtgga cattggacta acccaagccg agggggccaga tgagactaag aatacagagc 360
cccaaattggg cttggtgata gaacctcccc aatgccagtt tgcccaacaa catgaacaga 420
gaaaggaggc tggaaacatt gaatcaggag tggaacctcc agatcgcac agaccatat 480
actctgggaa gttttttgat cggacccctt gctggccaag tgcaggaaaa gttattccag 540
ttggttacag agttgcatcc tgcttgactg aaaaacttcc caggctaatt actccacctg 600
aagcaaaaaa gtatttcaac ttcagatatc cacctgctgg agtagaaaga gtattttacg 660
gaagagcaaa tgatccccag attgcacctt atttgacaca tggaattaga tctaaaattt 720
cagtactggc aaacacattg ataaaccac agcctattac cacatttcaa cagaaaatta 780
aagataaaaa agaattcata tatcttagca atcgacgagc accattagga aaatttcacg 840
atcaagcacc aggattacca aaaggcatgg acacaaccaa tacgacattt gggacagcag 900
tcatcaaaga atactctgct aaagatgtgg tgaatccacc aaaatcctat gaagaagtat 960
ttaaagaagg aatgaagga catgatttgt atgttgtttc tcacaatgat tattatgcag 1020
gagaggcaaa gaaccgaaag tataacccat caagtttcca taggtgtagt gtgtatggag 1080
taccaacacc acattttaat gatggacgag ccatggcaaa atctctatat tggctccatg 1140
aactacaaat gaaaagagga gctaagtttg tatccaaaag agcagatgat ttcaaagaaa 1200
agtttcaaca taaacttgga agagtttttag atcccatgac agaaacaatg aatgttcccc 1260
cagactgcac atttggagct tgtctccgtc ctgaggaata tggagttggt gatctcatcc 1320
ataatagact tccggatgaa tatcttcgag gcaaggatag acagcgagcc ctgattgcag 1380
cagttcggca tcacctgaag aaagttaatt accaaaagtt tgacactttg ctggcagcct 1440
tcaggcacta tgacaagaag ggagatggga tgatagataa agacgagctg caggaagctt 1500
gtgaccaggc caacttgagt ttagatgaca agctcctgga ccagctattt gactactgtg 1560
atgtggataa tgatggcttc attactatc tggaattcgc aaattttctt aactgtaaag 1620
acaaaatgct tcttaaagag tatgaagaga gggtcattat taaaggtaga aaaccagatt 1680
gtgtaaacc c tactgaggct aatgttgaag aacctgaaca aactctctc ataaagccag 1740
aagatattgt cttaaaagaa gcaggaagca cagaaaagac tctctggaca cttctgagac 1800
caagtataa agtttccaac tactataaga caacttctc tgagatcaat gcaattgtag 1860
gagccattcc ttctacttgt taccctattt gtggtgttcc aaccattcga tctgacattc 1920
ctgctccccg aattcgtcgc accagtgaac gaactaatta tgggtgaagaa ggtagtgcac 1980

attcactact atatcctacc atttttgccc ggaaaggagt gtttgaaaga gacttcttca 2040
 agaccagatc aaaagaagag attgcagaga tatttgttaa cattggtgtc aaactgtctg 2100
 atgaagaatt tgaaaatgta tggaatcttg catcaaaaaa gcatcacaga ggagaagttt 2160
 gtgttgagaa catcagaaat gttctagatg agctacggca tgcagaccgg atcaagtgt 2220
 aaacactcat gtgatatttt tggacttcat tcattcaagc aaaagaatta ttaactctgt 2280
 gtttatctaa aatgttgaat ccattctggt tttagatatt atgttagagt tcacagtgg 2340
 aagactcata tgcctgtatg tgttgctaataa aaattagatt ttggatttt 2389

<210> 876

<211> 2762

<212> DNA

<213> Homo sapiens

<400> 876

tgtttgagg aaaggaggga gaagaaagga gggatactgt ttctcccatg aaatagtcta 60
 attggttggg ttgatggcag aaggaaacat aggggagcct tccagctcac agccaagggt 120
 tgggctctta aacactatgc ctagtgTTTT ctgaatgctg tcttcatgga gccagctct 180
 tactctcttt gtactttaca tctcaccccc actcattaca gatgctcata acattcttaa 240
 aatatttttag tacttggcat ttttctgttt tcagtcagct agaacacact agagtccttt 300
 cctcagatgg cataatcctt tataggctct gagcctgcct agccatctcc tateggtgtt 360
 attactctc atctcaggct ctgagatgat actcagaccc taaactgatt ggactttttg 420
 gaggagggtg ccagtagaga ggtcaggaag atgtggagat gatgatggag agagatgttt 480
 ttattttatt ttattttttc agacagagtc ttgctctgtc gccagcctg gaggcaatg 540
 gcacgatctc ggctcactgc aacctccgcc tcccagggtc aagcaattct cctgcctcag 600
 cctcccatgt agctgggatt acaggcacc accaccatgc ccggctaatt tttttatttt 660
 tagtagagat ggggtttcac catgttggcc aggctggtct cgaactcctg acctcagggt 720
 atctgcccgc cttagcctcc caaagtgctg ggattacagg cgtgagccac cgcgcccggc 780
 ctttatttta ttttttagag atggctcttgc tgtgtcacc aggctggagt gcagtgatgc 840

agtcgtagtc tactacagtc ttgaattcct gggcccaagg gttcttccca cctaagcctc 900
ccaagtagct ggaagtacag gcacatacta ccaagcccag ttcgttattt taagtttttg 960
tagagacagg ggtcttacta tgttgccag actggctctg aactcctgtc aagtgagcct 1020
cccacctcag cctcccaaag tgctatgatt acagggtgtga gcctccatgc ttggatgaga 1080
tgtttgtttt aatgtttttg gttttttggt tttgtttgtt tgtttttttg agacagggtc 1140
tcactctgtg gccaggtg gagtgcagtg gcaccataat ggctcactgc agcctcgacc 1200
tcccaaggct caggtgatcc tcttgccca gccacccctt ccccggccac caagtacctg 1260
ggactatggg cttgtgccac catgcctggc taattttttt attttttagta gagatggggt 1320
tttaccacgt tggccaggct agtgtccaac tcctgacctc caaacagcta atttttgtat 1380
ttttaataga gacaggtttt cgccatgttg cccagcctcg tctcgaactc ctgggctcaa 1440
atgatccacc cacctcggcc tcccaaagtg ctgggattat aggcatgagc caccacacct 1500
ggccttttca gtttttttat tttttttttt tctttgagac ggagtctcgc tctgtcgccc 1560
aggctggagt gtagtggcgt gatcttggct cactgaaacc tccatctcct gggttcaagc 1620
agttctcctg cctcagcctc ctgagtagct gggattacag gtgcctgcca ccatgcctgg 1680
ctaatttttg tatttttagt agagacaggg ttttgccaca ttgcccaggc tgggtgtgaa 1740
ctcctgggct caaatgatcc acctgccttg gcctcccaaa gtgctgggat tacaggcgtg 1800
agccactgca cccggccctt tgtagtgttt ttaactaaag aattttaga gttgccagg 1860
ccaggaagcc tgggtggctct aaagggtaat agacctgtc agtaacagat aaggagtgg 1920
aagaggacat tactcatatt gaagatgaag accagacttt gctgcttcac aggccatgcg 1980
ctgggttggg ccacttcagc tccactccat tcgttttcct ttcctaactt gacaatcagc 2040
tcactacccc tcccttagtg cctccagtgc ctactcctgt cactccaatg tcaaccatt 2100
gggagttgag gcctgtcact ccaatgtcaa cccgtgggct gttactttgc gtcatatgat 2160
gctgtgagag gccttgctgg aatgtcctag gaatccctag tagcagtggc tattagtctt 2220
ctagaaaaga actattgctg ctgccttggt cacatgcccc accttctggg caagtggcag 2280
cattgcgctc atgaggggct ttgcattctt agccaagggc aataaactgg gtgggtgatc 2340
tggcccaaac ttgcccctag gctctgctag ccctgaatca gcaggcttca gagacgaggg 2400
tgggtgttat aaaagccagt ctgtaaaggg taaattccaa atcttgtgcc ttgttatacc 2460
aatccttcct gattcccggt taaaccaact actctatitc tgtgctgcct acattttcaa 2520
tcctcccacg cattagcaaa ttctgaaat ttcctcattt ggtaggcctt ccataggagt 2580

cagctatgga cttccatagg agttggcagc taaaaccaga ctgtgagctt ctgtctccgt 2640
tctgattttt gctgcacctc ccaggggaca gtccccacat gattacaaaa gccaggtgcc 2700
ctcatcacc cgttaccctg acctgtccac ttgttttgaa taaaccttca ttctccaagc 2760
ag 2762

<210> 877

<211> 2323

<212> DNA

<213> Homo sapiens

<400> 877

aagcaagaag ggacttgccc cattgcacag gaggggaaac cgggactgat gatgaagcag 60
ttaggctgca gctgctggat gtgtctcctg atccctgaga cccactcctc ccatgcatcc 120
tcagagtccc tcaaacccca catccagagc cagacaggat gaagcgacta agacacagag 180
cactgaagca atctgcccct cagaagtccc ccagaggcgc gtgaaccctg agctgcccc 240
cagactctgg gcttccccct cttttcccca aacagcccta gctcccccca ggcactcgcg 300
ttgtcagac ctttgtgatg gactctgagt gttgtgtgtg catttctctg tgtttgttca 360
tgtacaagcg tgctcgtgtg tgtgtgtgta tagatgtaca catgtgcatg ggtgtgtctg 420
ggtgtgtgat ttgtttgcat atttgtgtgt ggggcacgcg catgtatcct tggctgcatt 480
tgtgggtgcg tgcataaggat tgcttgtgtg tgcatttgta tgtgtgcaca catgtgctgt 540
catgtgcatg gggggattac atgcaggcat gtgtgtatcc ttgtgtgttt gtgtatgtgc 600
atgtgtgtgt gtgcatgtgg gaatttgcat gcatgcttgt gtgtgtttgt gtatgtgcat 660
gtgtgtgtgt gcatgtggga atttgcatgc attcttgtgt gtgtttgtga gtgtgtacac 720
gtgcatgggc gtgtttgagt gtgtacattt gtgtgtgcac ttatttgtgt gcatctgtgt 780
gggggcatct gcatggatcc ttgtgtgcat ttgtgtgtgt gcacacgtgt gcacgtgtgt 840
gcattcattt gtgtatgtgt gtgggtgtgt gcatgtgggc atgcgtgtgt atctttgtga 900
gcatgtacgt atgtgtgtgt ctttgtgtgc atgtctgtgc gtgtgcatac atgtgcgtgt 960
gtgcatttat gcgtgtatac ttgtgtgtgc acttgtatgt atgcacatat gtctggagga 1020

catggccttg ccccagggtc tggggaccct tccctgcctg ccctgccctg ccctgccctg 1080
ccctgaagtc tggggaactt ggccctgctc cggggtcttg ggaaccctgc catgggcccc 1140
tgcctgccct gggcccctgc ctgccctggc ggctcacctt gctctcgggc ctgctgaatg 1200
gaatctgcag ccgctccatg gcctcgatca tggcccgcat ggacacgaag atgttctggt 1260
agaccagggg ccggaagccc ttgcgctcct cctccgagta gccggcgccg tggatgatcc 1320
gcatctgctt gatgaagatg agacacggag gaccagagag gtttagtgac ttgccttggg 1380
tcacacagca agtggaaacc caggggagta aacttggggg cgtgtgagtc cttcaccaac 1440
aaaatgggac acggccagta gagctgggga aataaatgat aatcctgttg ccaccgcga 1500
cacagatttg atgactcagg gatgggtcat caccgaagc ctgaagagct gcgtgagaac 1560
cccctctttg caatccattg ctgtcctgaa gccacaaagg attctgggac ctctccattg 1620
ccccccgacc ccagacatc cccagctcc tggatagaaa tggggggagt gatctgtttt 1680
aggatacccc caaaggccat gcggcccaga cgggaagtgc ctgcttcctc ctgggcacgg 1740
aggaggacag gaggaagtgg aaccggcaga tgccaggaag gaactgggtt aaccgtgcca 1800
agccccagtc atcacaaggc aactggagcc agctatgtgc acagagtcca gcaccaggcc 1860
ctcacaggaa acgcagctgc tggggaagtg gtgagccagg ccaggcagcc gcaggggcag 1920
gaggctcggc ctctcagtcc cgctctggct caaactagct gctgaccccc aatcaatcct 1980
gctgcctcct tgggcctcat ttccccatc tggcactggg gttctgtggt gtttctgtcc 2040
cccaaggcag gcgaacaggg cagtcaggag catggacttt ggaaccagaa ttctaggtgc 2100
gagtctcagc tgtgtgacct tgggcaagtc gctctgcctc tctgagcctc agtttatect 2160
ttgggggaaa ctaggagtgc ctgcctcaaa gtgctaagaa caggccgggc acaatggctc 2220
acatctctaa tctcgtcact ttggggaggc caaggcagat ggatcacctg aggtcaggag 2280
ttcgagacca gcctggctaa catggtgaaa ccccgctctc act 2323

<210> 878

<211> 2458

<212> DNA

<213> Homo sapiens

<400> 878

ctttttcttc ttccttttat tctttcctgt cttgttcttt ccttcctctc tgttttctccc 60
ttttctccctg ttttcccttt ttttttttga gatggagact tgttctgtca ccgaggctgg 120
agtgcagtgg cgtgatctca gctcactgca acctctgcct ctcaggttct agagattctt 180
gtgcctcaac ttcccaagta gctgggatta caggtgccag ccaccccacc cggctatttt 240
tttttttaag gacagatggc gtttcacat gttggccagg ctggtcttga actcctgacc 300
tcaggatgatc cgcccacctc ggcctcccaa agtgctggat tacagtcgtg cgccactgcg 360
tcccgcctcc ttttcttttt tcttctctcc tccgtctttt tctatcctac ctccctgcct 420
ctttcctctc tctcctctcc ttttcccttt tcttctctcc tccctcctc ctgtttttct 480
ccatcattcc ctctcccttc ctttcttttt cctccgttcc ccgtttgcct ccctccctt 540
tttctttcct gtctccctgt ctcccttget cttttcctcc ctttctcccg tccctcctc 600
cccgccttcc ttttacttc tttcccttcc cattgcttcc ttgcgtttcc tgcctttccc 660
tgtctctccc tttttttcct gcctttccct gcctctctct ttcctgcctt tccccatctc 720
tccctttcct gcctttccct gtctctccct ttctttccct ctctccac tctcctcct 780
tccctccttc ttttctttcc tcttctttcc ctgtgtcttt ctttttctt tcttctctc 840
ttccttttct ctccctgtgt ctttctcgt cttgtttttc ctttctctcc tttgtgtact 900
gagaaaatga cagtccccgg ctgtgggtgg gcaggagtga cccgccccag agagcgggggt 960
caccctgggt gactcctggg tgcagctgtg agccctgcct gaggttttc ctgacctctg 1020
gggagggcgg ctcagcctgg ggctggagggt tggggccagc tctggaggct ggagtggctg 1080
ctgggcggcg ggacgggtgt ctcagaagtc actgaggcat gggtaggtct aaccttggga 1140
cattgctgtg gggagggctg tggagaccaa gcacattcct gaggtctctgc cagggcagcg 1200
ggggtggaca gtgtcccctg aggaccagg accaagccag gctcgtaca ggggtcctgg 1260
aatagaggac agaggccagg agcgtgtgg gtgctgggca ggggtgggga gtttgctggg 1320
gagctgcgcc ttacagacct gtgtttgttt cccagcctca gcgaggccgg gctggacggg 1380
gccctgggtgc tggttttcag tgccctcagc aggccgggac cagagctgct atttccagat 1440
gaggctggct cgcactctgt ctggccgggg ctccaggcct gagccctgca acacggcggt 1500
ccctctccaa gtctgcaaag cctgtcttag gggagagaag aagtttctt ccatgcgggt 1560
ggggacggct aacctgtcc agacactgag accggtgctc tgtgtgctca gccttcagcc 1620
tgactggct tgggtggctt gtgacccgcc agcagggtgg tgctgtctgt gggctctgct 1680

caagctcctc tcagagccag gaggatgccc gcctgcttgg gcctggctcc caggatgtgc 1740
ttggcaaata cttctgggat ggatggatgg atgggtgagt attcctgtgc ccgttggtta 1800
gtcagtggtc ttctttctcc cctcataacc agacttctta aatagtctat ctttggtgtt 1860
tattatctca tttctctact tactattatt tggttttagc actgttgacc caaattgctc 1920
ttcctcagcg tcaccagcga ttagtagagt agctaaatgc tagtgatatg atttagtcct 1980
tgtcttactt aataacctaga taatatttgg cactgtgcac cattgtctta aaattctctt 2040
tcttcctggg ctctgatact tctcacctgg atttatacta cctctctatt tcttccttgg 2100
cttgtaactc cccttctacc tgggaggcct cacctgctgt cacagctcca ttaaacctct 2160
atgattcaga cagagttcac atcacatttc ctagctcaga cctctcctaa gagaccaca 2220
ctaagaacct ggcgggtggcg gtggtggagg tggcggcgga cgggagcgtg acaggaggcg 2280
gtcgagagat cgtgaaagat ctgggcgatt ctgagccatg ccatttttac cttatgtctg 2340
ctagaaagtg ttgtagttga ttgaccaaac cagttcataa ggggaatttt ttttaaaaaa 2400
caacaaaaaa aaaacataca aagatgggtt tctgaataaa attttagtg ataacagt 2458

<210> 879

<211> 3449

<212> DNA

<213> Homo sapiens

<400> 879

atatgcacat gtacacacag acacacagac acatgtgcac acataccac acacataaat 60
ttatacacia acgcatagac atccacaccc atgcacatgt gcacaaatgt acacacatgc 120
aggcactcat gcacacgcac acacacacia gggcagtgcc cagggaagg cgtccaccta 180
gaggaaacct gggcagagat cttccactg ggcctgggaa atgatcacat cttttggggg 240
tgattttggg gttttgttca tgtatctatt tgttcactca aaaacatgga ctgagaacat 300
actaagcact gcacacctgg cgaggcatgt gggctccaac actgagcagg gcagagccag 360
ggctgaccgg ctggaagcct ctggcctggc agggaaagaca agtgggaaag ccagtaactc 420
catccggggg tgagggtgag agggagacag gtgggaaagc cagcaactcc atccggggct 480

gaggggtgaga gggagacagg tgggaaagcc agcaactcca tctgggggtg aggggtgagag 540
gcaggacgtc ctggaaccac agaggcttga catccagccc agatcagagg aggacaaagc 600
aggaaggact tcctggagga agtgacttat aaggtgagac ttgaaaaatt aggaagaatc 660
agaaaggaga agcaaagggg gaaagagcat tctagacaga aggaatggca cgcacaggcc 720
atgaacgaag gcaccgttgg tggaaagccc aggggagaact ttggctacag tgacgaggga 780
agtggggagt gtggcgagag gcaggcgagg gccagatgtt cccgtctctt ccctgtacca 840
gccagtcgtc tggcccatgc cagcctccct cctgaaattg tccaaagaag acgtgatccg 900
ggcggggccc tcaggatgcc cttcaggaag cttctcttac ccagggcctg gggccttttg 960
tgctcaggaa tgggatgtga tgctgggctt caacagggaac ttaggcctct ccatgtctgt 1020
cataaacact tcctagtcct caggtcacgc ccaggctgca gtcttcccag ggctgtgctc 1080
tcccagcacc ctcaggaggg cagacctcag gcggagaagc ctgccggtgc ctactgccc 1140
gaatgggctt caaatccacc tctgctgggt ttctgggggc agggaccggt tcacaagccc 1200
ctccaggttc cccgtcttgg ccttccctcc ccacagggtt ggcccagaga gcgcctctct 1260
gaagactgcc tcctccatcc tggcggcagt gctcccagag ccgggcctcc tcagggccag 1320
ggtgtgcccc aggcaggctc ccaggggctc tcaaggggta ctgcaggggg ctctccccta 1380
ggcagagagg agaatttggc cccacagcta gctgccagct gagccttgggt ctctctgtga 1440
gggcctggaa gaacagaaag ccttcagggt accaccatgt gggaccctag accctagaag 1500
acttcacccc aggaggctct gcccatccca agcatccgtg ggtgactggg tctccacctc 1560
ttggcaagcg ctgactcact ccctacctct gagagtccat gaccaggggc tccagagaga 1620
ctatcctcct gccaccta ccagggtggcg aaatctctgg ggtcagggtg ggccttatca 1680
ccctccttgg tcaaggagcc aggtacctgc acaggcatgc agacctgtgt agaccagatg 1740
cctgtgggggt gggttgtgga cccagcccc attcacccat ccctgccctg ctgagagagt 1800
ttgttcacg gctttacaga cctgtctctg tgggcaccag gggcagccct gtctctctct 1860
ccctgacctt cctgtccat ccctgggcag cagcgtgta ctctgtctat gtgctcagcc 1920
tgcttccat gcctgtggaa gtcccatgga aacagcatgg ggcaggggaa agagcgtggg 1980
aggccctcac ccactgtgag tcaggaaagt tgcttcaact ctccgggtcc agctttcccg 2040
tctataaaat gggccagtga ttctctgtt cctgtggcct cctgagcagt ggtgagggct 2100
gcatgaggga cccagagtct gggccacaga tggccctggg tcagcatcgt gtgtgccctg 2160
agggcacctg atccagcctt ggcaggggcc agaggagctc ccagaggaga tggcatctga 2220

gctgagggca tgcagagata ttttcctttt tcctttctaaa atgtttttct tctttacaaa 2280
ggtcaatctt ccaagcgagg aaaatttatg aaaggggaata aagcagacca ttcaatcagc 2340
cctttctcaga gcccaccacc acctgcttct gcacctcact ccatccacac acacatgttg 2400
ccacaccagt ggcatttgtt gtctgttgaa ctggggctta gaaaaatgag aaaagagtag 2460
aaagggcagg ggagaacctg gctttcctgg ctaagagacc ggtagcaaga ggctggcagg 2520
agcacagctc actgacaccc ttgaggggct ctgggcagct gggcttcagg tgcagggccc 2580
agaactcaaa gggccctcga ggcctttgga tttgatctgc cacctgtggg gaaccattga 2640
aggggtttga gcacagggct gtcacttccg gtcagcggct tagaaaagac cactctgaaa 2700
agaccaaagt gctgggatta caggcctgag ccacatgcc cagctgaatt tgagcttttt 2760
aataatctca ttccacatag ccttatagat cctgtaaata ggggggggtca caaaagtaat 2820
atatttgttt atggaagata attttgtact gtgctgtttc ctaaatacata ccaatatect 2880
aaagtcatgc acttcccaga tgatcgtgat cctccaaatg ctttgtaaga tggggcaggg 2940
cgtggaaata tatatatata cacacacaca cagagacaca cacacacaca agtatagtat 3000
atattttcct aacctttctt ctgggtcctt cctcagatct ttgagtcacg atagaaaagg 3060
agctcgagtt ctttgtgtag gaaagttaag cttcctgcct gcggtgttct tgcaattgcc 3120
ttaggaattc acaagctcta ggagtctga acggaaggca gacgagaggc actttatcca 3180
gtcccagaaa gaatctctaa ccgtgtgact gagaagtcac ctagaaaaac ttatatTTTT 3240
aatgtaaaaa caaatggggc ttaccagacc tcacagagta ttggacgtct acaagtgttt 3300
ttatatTTTT taactgtaaa gaagtttcat atgcacagaa gagcagttgg aaatctgggtc 3360
gactgcaata aaacaagatg acctttgcat gtacaaagat gttgcattca gactatgaaa 3420
atagcaaata aagcttttgt gcaagttgc 3449

<210> 880

<211> 3033

<212> DNA

<213> Homo sapiens

<400> 880

ttacactgga aaaggtaatg acctgtcttc tccttgagcc tgtctccac tttatcagtt 60
cccatagtcc tcttggcaca gtatggctgt gtgtacacat gtgtatgcac gtaagggcca 120
gggccgccct tccttctaaa catagcgctg atacaataga aaggcatgtt tctcagcccc 180
atttgccaca ggaagcagtt cctcctccac ttgaattccc tagccatggc agctgtggag 240
attactaaag caaacatgtg cccctcttcc ccaccttcaa aaatttgccc ccctgggtga 300
gctgtggagt gagccagaga tagctttcag cccttcccat gggaacagct ggggtgcatta 360
gcaagtccct ggagctgctg tgtgccactt gggaaaatag attcacacct ggctctgtgc 420
ctgtctcctt caccagggag tgacactttg ccagaagcag ctgatacatt gtgtggcgct 480
gaactgactc acagatagcc ctggcccat tgtccctcaa gtatattatt gtcagggctg 540
gctcaactca agcttcacc caagctccag gatcagatgt catagcagct gctcaactgg 600
cctcaggcat attttcaact ctgcatttgt tttctaagtt cgctgtattg actttattct 660
tccactgctc tcttcacctg acctctcagg gcattttaac attcagccca acaagaaatc 720
tccaccagaa ccccgagtgg cgaagaaact gggaatgatt gccggcggga caggtgcatt 780
acactgaggg cttttctctc ccaccattgt tgactgttgc catgcaaatt cctaggtgac 840
cctctgaaga ctggttacca tagccaagct gttgttcac aggggatttc cagcaatgct 900
tagaactccc tagtatctga aaaacaaaat cataagcagg tagaaaccaa aaaaaatttt 960
aactgatgga attagagaaa caaattaaat gagctttcct ctttttgaat ggatctaata 1020
gttttaggtg agagaagaga gaagcagcta ggaatgacta gctaggaaga aagaaaatta 1080
gcattggaca ctactgtgca ttagacactg tgtagtctaa tacactacta tatattagac 1140
acaaaaatta gacacatata taggtatcta tgaagtaggt actagccttt tccttttaca 1200
gagagacaat ggggttccag agaggctaaa tgatttccac agggttattt cactggtaat 1260
ggcctggagc aaaattagta tttggctctg cctagtgcct aagtacatgc acttaacccc 1320
tgcaaataca gtgttctaga accctcatca ttgaatccgg aggtacttgt agtcatttgt 1380
gacactggag tcctagcctc caaaggactt tcagaagagt cttagattag ttcctaagaa 1440
agatttctac aatatgaact tagatgaatt tgaagggtgc ccggaaatac agatgttgga 1500
gaatatgcag gaagagttta gaggatgaga atgctaaagg aaaatggagt ggagtgggtga 1560
atgagcagaa tgaagatgaa agggctggct agctaaggag ccaggacagg gcagagagtg 1620
tggccactac atttactgt ggggtatctt catgcaggaa tcacccaat gctacagctg 1680
atccgggcca tcctgaaagt ccctgaagat ccaaccagt gctttctgct ttttgccaac 1740

cagacagaaa aggatatcat cttgcgggag gacttagagg aactgcaggc ccgctatccc 1800
 aatcgcttta agctctgggt cactctggat catcccccaa aaggtatect tcccatttct 1860
 ggacatccca ctatcccctc atcgtcaaaa tcaaagcctt gcccctttgt gaattctggc 1920
 ttcattgaaa tcaaccttgc ctcacactgc caactcggaa gtctgagtgc acagacacag 1980
 tgatctcctg gtccctttcc tttgggttcc tgtttaccag gtgggtgaca gggatggctg 2040
 tgctgctaag gctcagcttg aggagggctg agtataccta tcccagctg ctgctaccac 2100
 ttgacacttt ctccagagcc tttcagggcc ctccccagtc tcatggcacc acaccccctt 2160
 gccagcatgt atctggagta ttaagtactt tcttctctcc atacttcaga ttgggcctac 2220
 agcaagggct ttgtgactgc cgacatgata cgggaacacc tgcccgtcc aggggatgat 2280
 gtgctgggtac tgctttgtgg gccaccccca atggtgcagc tggcctgcca tccaacttg 2340
 gacaaactgg gctactcaca aaagatgcga ttcacctact gagcatcctc cagcttcctt 2400
 ggtgctgttc gctgcagttg ttccccatca gtactcaagc actataagcc ttagattcct 2460
 ttcctcagag tttcaggttt tttcagttac atctagagct gaaatctgga tagtacctgc 2520
 aggaacaata ttcctgtagc catggaagag ggccaaggct cagtcactcc ttggatggcc 2580
 tcctaaatct ccccggtggca acaggtccag gagaggccca tggagcagtc tcttccatgg 2640
 agtaagaagg aaggagcat gtacgcttgg tccaagattg gctagttcct tgatagcatc 2700
 ttactctcac cttctttgtg tctgtgatga aaggaacagt ctgtgcaatg ggttttactt 2760
 aaacttcact gttcaacctg tgagcaaata tgtatgtgtg agtataagtt gagcatagca 2820
 tacttccaga ggtgggtctta tggagatggc aagaaaggag gaaatgattt cttcagatct 2880
 caaaggagtc tgaaatatca tatttctgtg tgtgtctctc tcagcccctg cccaggctag 2940
 agggaaacag ctactgataa tcgaaaactg ctgtttgtgg caggaacccc tggctgtgca 3000
 aataaatggg gctgaggccc ctgtgtgata ttg 3033

<210> 881

<211> 2731

<212> DNA

<213> Homo sapiens

<400> 881

catagcagga	ctcatgctct	caaattccat	ctcgtaccat	ctgcctgtgc	catagcagga	60
cccgtaggtct	caaatcccgt	ctcgtaccat	ctgcctgtgc	gatagcggga	cctgagccct	120
caaattccgt	ctcgtaccat	ctacctgtgc	catagcggga	cccgtagctct	caaattccat	180
cccgtagcat	ctgcctgtgc	gatagcggga	cccgtagctct	caaattccgt	ctcgtaccat	240
ctgcctgtgc	catagcacga	cccatggtct	caaattccat	ctcttaccat	ctgcctgtgt	300
cattgcagga	tccatgctct	caaattccgt	ctcgtaccat	ctgcctgtgc	catagcagga	360
cccatggtct	caaattctgt	ttcttaccat	ctgcctgtgc	catagcagga	cccatggtca	420
caaattccat	ctcttaccat	ctgcctgtgt	cattgcagga	tccatgctct	caaattccgt	480
ctcgtaccat	ctgcctgtgc	catagcagga	cccatggtca	caaattccat	ctcttaccat	540
ctgcctgtgc	catagcagga	cccatggtca	caaattccat	ctcttaccat	ctgcctgtgt	600
cattgcagga	tccatgctct	caaattccgt	ctcgtaccat	ctgcctgtgc	catagcagga	660
cccatggtca	caaattccat	ctcttaccat	ctgcctgtgt	cattgcagga	tccatggtca	720
caaattccat	ctcttaccat	ctgcctgtgc	catagcagga	cccatggtct	caaattccat	780
ctcgtaccat	ctgcctgtgc	catagcagga	cccgtagctct	caaattccat	cttgtaccat	840
ctgcctgtgc	catagcagga	cccatggtct	caaattccgt	ctcgtaccat	ctgcctgtgc	900
catagcagga	cccgtagctct	caaattccgt	cttgtaccat	ctgcctgtgc	catagcagga	960
cccatggtct	caaattccgt	ctcgtaccat	ctgcctgtgc	catagcagga	cccgtagctct	1020
caaattccat	cttgtaccat	ctgcctgtgc	catagcagga	cccatggtct	caaattccgt	1080
cttgtaccat	ctgcctgtgc	catagcagga	cccatgctct	caaattccgt	ctcgtaccgt	1140
cttcccccta	gaccctcag	ctccagegat	gctggcctct	ttgctgttcc	tccaaaattt	1200
caggctcagg	gtcttcacac	tcattctcat	gtattgcttc	tgctggaatg	ttcttcccct	1260
agacagccat	gtgggttgct	tcttcataac	ttcctgtttg	tgctcaaacg	ttaccttctt	1320
agagatgcat	ttcttgacca	ttttgaacac	cttatgtaaa	acggtatgct	cttatgtacg	1380
acctctttcc	tggccttgtc	tttctcagga	gcacttacta	gcacttgata	ggttatatgg	1440
ctcacttggt	tctttcctgt	ctctttctac	ttgaatgtga	gttccatgat	gacagggagt	1500
cttgtccatt	cctgtattgt	ctaccccaag	atgaggcctg	gcacacagtt	ggtattcaat	1560
aaatatttgt	tggatgaatt	tgtgactggg	aagtgggaaa	aaatgtattt	tattttgtat	1620
tcctttgatt	atcagtgaag	gtaagtatca	tttcatatat	tttttggcag	tatgttatac	1680

aatatggcaa tatgtgttac ttctcttggtg accttttttac tcatgtgcac taaccatttt 1740
gtgtagggct ttgggttgag tttggcttca gtaggtagag ttcagggtga ttgtgggaca 1800
gccacataga tgtaactat tagttccgga gactgttggt ttgtaaatca ttctagagac 1860
agccgtcagt cattaggatt cctgcatgct gcttttagggg tctttgggcc ttgcagaata 1920
cagctttgtc ctccctgagg tgcattctca atggatctgt ttctcagcat tctgccagca 1980
ctttttcaat gtaatatatt ttttggtttc tcaggcttat ggtgaaggct ctggtgctga 2040
ttgtagacgc catgtccaaa agttaaatct actacaggga caagtttcag agctgccact 2100
caggtacagt tgtttgagaa gagcgtgggt gtcttgccct gttttcgtct tgactggata 2160
atagaagtac acagtggaaa tcctgagctg ggcactctgc tgtggctgga cctgccccag 2220
gtccctgctg tcaactttgcc atctgaggtc agcagctgcc ctcagaaccg accccgggga 2280
tgtttagaat actggggctg agcttcaccc gaggagattc tcacctgatt acctgtgatg 2340
aggtccagac ctgtggtttt taaagctggc aggccattgc tctgtgcctc cagagctgaa 2400
ggctcttgac acagctgttc ttgtttgtgg ctggctcacc agagaggccc tggtaggaca 2460
gacccactg ggcctgggtc agtggagaag tcccttagac ttccacgtct tacaatatgg 2520
cagtcaaaca ccctgagcaa ttctccact gaaaataact aaaaatgcta gctattttaa 2580
atgcactgat gagctgacaa gaaagtaact ctcggccagg cgcagtggct catgcttgta 2640
gtcccagcac tttaggaggc caaggcgggc agatcacgag gtcaggagt cagagaccagc 2700
ctggccagca tgggtgaaacc ccgtgtatat t 2731

<210> 882

<211> 3099

<212> DNA

<213> Homo sapiens

<400> 882

gaatagtttt cctttctgtg gggtttgggtg tatttgggaa acattagctt aggggggtaa 60
agtaggttac ccaactctga aaagcagcat caaatcttt ataataaaca catattaggg 120
gcccactta aatttcaagc agatgtcatg agctgctcag agtagcgtgt tacaactctg 180

cggtataagg taaaatgact tagagtgtag cagtagtccc caatgtcaaa tagacagtgg 240
taagtataga ttgctcttct ccttgcatca caaatgttaa ttcaccctgc cccacacgc 300
attaaaactc agcatatttc acaaattgag tgtttcattt ctatttgaga tagacttatg 360
gtaagtcagc tttgctcccc aaataagtta gccatatagt acttctatat gcaaaatttg 420
aatctcaatt ttactactca agctggaagt aaaagtcatt tttgtatata ttctttgctc 480
ccagactggg ttacagttaa cagatctgaa tattgtcact tgtacaccat acatacacag 540
aggtctaaaa ctctctacaa gtaaataaag aaaaaaagcc cagcaacca ataggaaaat 600
aggccaagcc tggtatagc tttttgatca tctccagact ggcaggaaga gaatgcatac 660
tcacactgta agtgcctgat ttgatttgca gaggatatag aaccttatca gaaaacagcc 720
ttccaaggca agagcaaatg caccctatct aagcacagct tttctccaat tcttatttac 780
ctaaggagat gaatagctgc caggaacatt gtttgcacaa gggcaggagc ctgccagatc 840
tgagaacaca gcaaaatttt tattttgtca aaaatcttat attcagctta caccattcat 900
ttcaggtgaa catacaacag tctgcatttc agtttaggga aatgtttaca gtcgtctggt 960
tctctttatt cttgggaaca aggttacctc acttgggaaca cataaccagt gccaagttgt 1020
ccatccctaa gcaatatcgc ttctctctac tttctagaag ttcttcaggt tgtggaagac 1080
agacttttca gaattgtttg ccctcattcc ctctccaga aatgcatgcc tttgtataat 1140
ctcttccct tgagagccag taggctaacc taatgagta tgtttaacca gtagaataca 1200
gcaagaatga tagattacaa gagattgtgg ctctatctt gctagcggcc tctctctgtc 1260
ttctctgctt gcacactttg ttgaagcaag ctaccatccc agaggcaagg aacacaggcc 1320
atcagtttag cagccttgag gaactaaatt ctccaacta ccacataagt ttggaagtag 1380
attcttctcc agtccagcct tcagatgaga cccagccat gccaacatct tgattgcagc 1440
cctgtgagag accttgaaat agaaccattt ctgatctcct gaccacaga aactgtgaaa 1500
taaataatgtg ttaaggtact aagttttag taatttgta cgcagcagat tgtaaataac 1560
acgcagataa aaccagacag aacagaaaaa taaaatgact ttaactctag aaagtttccc 1620
catgtaaaat tttgaaaatg ctactctgcc taaggtaaaa ctgtcataca tatatacgta 1680
tgaaaacaca gaaaggtgtc tggaagggtg ataccaaatt aatctttat ccaagaggaa 1740
tgaaaaccag tattcacaca aaaacctatg cacaaacctt gtgaatatat taaaaccag 1800
tgaattatgc actttaaaaa ggtgaattat gtgatatatg aattatatct caaaacatt 1860
taattaaaaa cctgtacaca attattcata gaaactttct ttaaaattgc taaaacgag 1920

gaagatctca gttatccttc aactggcaaa tgaataaaca aactggtaca gccgtgcaat 1980
tgaatactgc tcagcaataa aaaagaatgc actgccagtt cagcaacatg ggtaattctc 2040
aaatgcatta tgccagttga cagaggtcag actcaaaaata ctatgtacag tgtgattcta 2100
cttatatgac actgaaaaaa gcagaactat aaggacagaa aacaggttag cggttgccaa 2160
ggagtgggag aagcagccag ggagaacttt gaggagatga aaatgtgcca ggccttggtc 2220
ggtggtggta cgtaactgtg catttgtcaa gactcagtgc tatatgctga aaagggcagg 2280
ttttactata agtaagttgt acctcaataa acatgatttt taaatgatta aaactttggt 2340
ttttgtttgt tgtggttcag ttttaagggt tcccataaat ctattggttt tagattctaa 2400
gttgtatata agcttctgtt ttaaaagaat ttttttttaa atcctcttat cgtcaacaat 2460
atttagttgt gctggaaatt ttattttgga attgtttaat agagaaagac aataaataat 2520
gttcaagaac agacattgat tcataacatc aaagtatatt gtgagaagat ggtatttcag 2580
aatagaggaa gaatttctta tgtgctggta agattgtaga taatcatttc tgcataattt 2640
tcatagctgg attgctttaa taaagccatt taaaggttaa gttctagatt gcttcatgtt 2700
gcttatcaat gttttaaaagc taaaatagaa aattagctgt taagttggct caaccggaaa 2760
ttcagtatat cctttaaaaa gagaaattta gtaagcaatg tgtctaaaga atgacatatg 2820
gttgggtaca gtggctcgtg actgcaatcc caacactgtg aggctgaagt gggaggatca 2880
cttgagccca ggaatttgag accagcctgg aaaacagtga gacctgcac tctacaaaaa 2940
aacaaaaaat taccaggca tgggtgtaca caccttgtgg tcccagttgc ttgggaggct 3000
gaggtgggag aatcacttga gcctggtaga tcaaggctgc attgaagtct catcacgcca 3060
ctgcactcga gcctgggtga cagagcaaga ccctatctc 3099

<210> 883

<211> 2135

<212> DNA

<213> Homo sapiens

<400> 883

cccatacgtg tgtaacctat ccagagagaa atcacatcct tttgcatcca cattggaacc 60

aagacacaga gcaggagacc tcagaattgg agtctctgta tcaggccagt cttcaggctt 120
ctcaagctgg ctgttctgga tgggggcagc aggataccgc ctggcaccca cttagccaaa 180
caggctctgc agatggcatg gggaggaggt tgcactcagc ccatgatect ggtctctcaa 240
agacttcaac agcagaaatg gagcatggtc tccatgaagc cagaacagtg cgtacttctc 300
aggattcatc aaacgtgagg aagcctttgg aaaccgggca ccgttggtcc agctcctctt 360
ccctccctgt catccatgac ctttctgtgt ttctcctcgg tccccaactc taccttcccc 420
aaccacagtt cctgtcccca gatgtcctga tgcccacatc ggcaggggag cccaatagac 480
tcccaggaac ttcaaggagt gtccagcagt ttctggctat gtgtgacagg ggtgaaactt 540
cccaaggggc caagtacaca ggaaggactt tgaactacca gagcctcccc catcgtctca 600
gaacagacaa ctcttgggca ccctgggtcag agaccaacca gcatattggg accagattcc 660
tgactactcc aggggtgcaat cctcaactaa cctacactgc cactactacca gaaagaagca 720
agggccttca ggttctcac actcagtcct ggagtgatct tttccattca ccctcccacc 780
ctcccattgt tcctcctgtg taccacatc ctagcagtct tcatgtacc ctgagggtcag 840
cttggaattc agatcctgtt ccagggtccc gaacccttgg tcctcgaaga gtagatatgc 900
ccccagatga tgactggagg caaagcagtt atgcctccca ctctggacac aggagaacag 960
tgggagaggg gtttctgttt gttctatcag atgtctccag aagagagcag atcagggtta 1020
gagtcctgca gcacagtcaa tggtaaagggt tattcctttc ctttcttggga gctacacctt 1080
tctttgtaaa actgtactgt gggccgggcg cgggtggctca cacctgtaat ccagcactt 1140
tgggaggctg aggcgggtgg atcacgaggt caggagattg agaccatcct ggccaacatg 1200
gtgaaacccc gtctctacca aaatacaaaa aattagccag gcgtgacggt gcgtgcctgt 1260
agtcccaact actcggaagg ctgaggcagg agaattgctt gaaccgggga ggcagaggtt 1320
gcagtgagcc gagatcgac cactgcactc cagcttggca atagagttag actccatctc 1380
aaaaaacaaa acaaaacaac aacaaaataa actactgtgg cagcgttggt accctgcatc 1440
actgccatgg ttgtgctatt ctcatctcaa catagaattg gtgggttctc ctaagggtgt 1500
caggaacctc taaaaagatg tgattctttg ggaggggata tttgaaattc caacttccat 1560
tccccctagc aaaaggaagc agctgctgtt taagggtttt atctgagcca ctttaaagat 1620
gaatccatgg tattactctg gatactagcc attccttagg attttaaggt cacattttat 1680
tcctggatgc tttatgtccc cacctccacc tgagccctca tcctctgttc cctactatac 1740
tcccaacttc tactctttgt tttatccacc tatccctatt acctgacctt ttgtcttccc 1800

tgtctcccat ccttgggggg acatgtagcc ctgtgggtcat ggttctgatg acatcatcag 1860
 ggcagccccc ctgcccaggt attatggcct gtcagcattc cctgtgccct ccaaacctta 1920
 ggcctagaat gcggagctgc caacataaca ttcacccttt tgaacagatg gagtcaggca 1980
 cactaacaca gccttctgtc ctcaataaca cagccattat tgccacttgc tcagtcgtca 2040
 atgtaaacc ctcagagtcag ctgaactatt ttaggccaaa catactgttt ttgtaaagta 2100
 tttttcatta ataaatctat aagacagttc tattt 2135

<210> 884

<211> 2021

<212> DNA

<213> Homo sapiens

<400> 884

taattaatca attaacaaag agccacaaaa cttctgggca tacaacaaga aatactggca 60
 cccagaactg gagacttcag ttgatcttgg tggatttcag ctgcttaagg cttgctcatg 120
 cgtctgcagt tggctgtggg tcagcttgcc ggctgctgat cttggcggga ctccttcag 180
 tgcctgggag ctggctggtg gtggctggtc caggaccgtt tctgctggga tgaccgggtg 240
 ggggactcgg ctatgctcca tgtgtctgtc ctcctccagc acggtagtcc aggcattgtc 300
 tcaaggctcg gcaaagggca aaagcaggca agctcaagca tgcattgcaag catcacatgg 360
 tttgatctct ttgcatcctg tttgctagca ttggccagac caagtctcat ggccaagcct 420
 agagtcagag tgtgagagca ctgcaagggt acacggaagt ggggtgtgcaa acaggagggg 480
 gtgagctttg ggggcagttt ttgcaattga cttaccctgt gcccaaaaga tatgataaca 540
 tgtatacgca catgaagctc ccagccattc ttgggggcaa ttcttagggg caaagcacta 600
 ctttttctga gtgattccat tactaaaatt caacaaacgt cagtaaaaag aaacttggtta 660
 aggcaattct gagatcgtcg aggcttccaa gagcttacag accagtagtg aaaagaggcc 720
 tgcaaaccac tgaccctttt gcaagcaggg agaggtgcgg actatttcac agtcagaact 780
 gctggccaag cgcggaggag gaagtgggta gagctgagtg ggaggggatc taggaaggct 840
 tcacagggga ggtgggtttg gctgagcttt gaaggatgaa gaggatttcc ggagggagcg 900

actgagggat cttcctgagc aaagaaagaa ggcagcttcc ttggggcctt ggacatctga 960
ggcctttcat ggagccttct ccttccagga gtggcttcc gaggagtcc tggagagaat 1020
ctctcagctg gacacccggt cgcctgtcat caagatcaat gtggccgtag acaggctgcc 1080
cagcttcctg gcggcccca atgctcccag gggccagccg ctgccccatc accaatgctc 1140
catccacctg aactgtgaag acaccctcct ccttcatcag gcctttgaag atgccatgga 1200
tggcctgcct tcccacaggc ctgtgattga gctctgcac ccttcctcgc tggacccac 1260
cctggctccc cctggctgcc atgtagtctc cctcttact cagtacacgc cctatacgt 1320
ggctggaggc aaggcctggg acgagcagga gagagacgt tatgcagaca gagtgttcga 1380
ttgcatcgag gtctatgcc ctggcttcaa ggactctgtg gttggcagag acatcctcac 1440
accaccagat ttggagagaa tcttcgggct tcctggaggg aaaatatacct ggaaggagaa 1500
gaacatttgc tgaagaacag gggaggggaa gaaaccacgc cagagcagga aaggctgtaa 1560
ctctcctgtg ctgatgactg tggccctgcc tctgcagaac atattccact gcgccatgtc 1620
cctggaccag ctctacttca cccgccccgt gcccctgcat tctggctacc gctgccctct 1680
ccagggcctg tatctctgtg gaagtggggc tcaccttga ggaggtgtga tgggagctgc 1740
tgggcgaaat gcagcacatg tggcctttag ggacctcaag agcatgtgac cctgaaccag 1800
ctctgacca ggaagaagac tccaccctg aattccaagt gctccattgg atcagcttcc 1860
caggaagttc agcttcgggt tagtacataa ggccaccaca atgctcaaga aattatttta 1920
gaaaaaacgt acgagttaca tttagtcaa gttgacctta tgcccatgcc tccatacatg 1980
gactggttct gttttattaa aactaatatt tcatacatg t 2021

<210> 885

<211> 2046

<212> DNA

<213> Homo sapiens

<400> 885

agcgcgttta agatcattct tggctgaaat atgtgcgggt acctaggag tggggtaaga 60
gagggactcg tgggtggggg cgggtaagtg cctttttcac aacctgcccc agagaaatac 120

acgaaattac atcgggagtg gaatcgagcg tccctctcag ctaaaaatat tactcacagg 180
tagcaacgac gcctgattgg ctgcgctggt cccctcgcaa cgaggcgatt ggctgcctgg 240
tatccaggag accgacgtca aactcggact gggagaaggg gaaagtctgg ggggagcgaa 300
ggaggggacg gggagaaaga agcaatgaat gaaacgcca tcgcctggcc tcccccttc 360
ccccctccc tctcctctcc attcttggag cacttcctgg aaaaacacca gttggggcgc 420
cgccctcccc tccaaacgtt ggggcctgca ctctcaacct gctataagga agttaaacgg 480
cagctcaccg aggagtaggg tgtctacggg gcgggcccgt gtagaccagc tgtgtcctc 540
gggcacaaac ccgccgtaca tgccaggcct agaagctttt ggctttgtgg acgcaaaatc 600
tggttggagc cgccctctcc accctgactc tcccgcctct cctttttaga aggaaccgca 660
ctgagaaagg gtatttctga aggctcaatg cgtaggagaa ggggtgggaa gatgggtttg 720
tggaatgggc tgagggtggg gagtggctcag gtgactgatt tcatgtttat tgtacagatt 780
cctaaaacat agttttacta agtgactcct taaattctga ttaatgtgat ttttttttt 840
tttgagtgtt tgggtttttt agttgcaaac aggagtggaa ttgaaatgtg aaagtatggc 900
aaaactgtga aagcatttaa attaaaatgt cccctcctct gcattgaaat gtcacaaaa 960
cgtcaaatat aatgatttg ttcagttttc tttttttatt tgtttgtttt tggttttctg 1020
taatgacaag tccatctgta ataaaagtga gttattttta gttttctaata taagcacaga 1080
aatttcaaga aactagacag gatataccttg gaatgcctta ccaaagaaa cacttcattt 1140
ttcacgtgtt ctagaagcac aacttctttt accattaggc aaataatggg actgtaccaa 1200
acatctagaa ctgcgggacc atgtgtcttg attagtaatt ttatattggg ggggcatatt 1260
aggcatggct gagactaaaa tgtctaaaga tagatgaatt gtaattttgt caaacttatt 1320
tgtacttttc aataattctc taaagagaag ggacaagttc tcttttctga atgtcttcaa 1380
tttgtaattc cagatttgaa atatgagagc agtcatctga taggtactga ttaaataatca 1440
gtagcattaa aagcattttt aagtcagaaa tgtagatgtc aaaaatttat gagttattgc 1500
tgcttggcct aggagtgtaa gaagatgtct gaccaaatat aaacacacac acacacacca 1560
caciaaacaac acacacggag gccccatggc atactggaaa aagcaatgaa ggggtgggtac 1620
tgggaggtct gagtttcaca ccagtttcaa taaactttta gttttctcac ctataaaaag 1680
ggttgaatta gatcatatct aatgtctcct tcaattaaaa aaaaattcca cacttggctg 1740
ggagcagtgg cttacgcctg taatcccagc actttgggag gctgaggcag gcagattacc 1800
tgagctcagg aatttgagac cagcctggcc aacacggtga aaccccgctc ctactgaaaa 1860

tacaaaaatt agccgggtgt agtggcacac gcctgtaatc ccagctactt gggaggctga 1920
ggcaggagaa ttgcttgagc ctgggagatg gaggttgcag tgcgccgca tcgtgccact 1980
gcactcctgc tggccgacag agcgagactc tctctcaaaa aaataaataa ataaaaaaaa 2040
aaaaag 2046

<210> 886

<211> 2146

<212> DNA

<213> Homo sapiens

<400> 886

acagatgtga gagcagaggg ccgtgttcag acagaacgcc aagcatccgg cacgccagga 60
agcggcggga aaaggccatt ggggaaggcc gcgtggtgta cattcaaat ctctccagcg 120
acatgagctc ccgagagctg aagaggcgct ttgaagtgtt tggtagatt gaggagtgcg 180
aggtgctgac aagaaatagg agaggcgaga agtacggctt catcacctac cgggtgttctg 240
agcacgcggc cctctctttg acaaaggcg ctgccctgag gaagcgcaac gagccctcct 300
tccagctgag ctacggaggg ctccggcact tctgctggcc cagatacact gactacggta 360
agcccctgaa acccagccac agtctagtaa gactcaaagc ttgggaagca gtgccttcct 420
tgaacaaaac ccagagctaa agcgccttgt ggacatagct tccatcccca caccacagtg 480
tgctgcttgg tataactttg cagccacttt gcctgaagac taccatcctg tttctcttct 540
ggcctctggt ccaccttatt ctgtcctgtg actgctacca aagagaatcc agcctccac 600
ggcctctagg aagattcagt catgtgcaca gccagctggc agaaccgtgg ctacggctctc 660
cttgacttca cagggccagc tgctaccctg tccccttcag gggcattccg tggtagcccc 720
agacaaggca gcagccacct ggggacaaga tgatgaagaa ggacaaagaa gtacaatgta 780
cgaaagaatt acttggccag gctcagtggc tcatgcctgt aatcccatca ccttgggagg 840
ctgaggcaag aggatcactt gagcccagga gttcgagacc agcttgggca acatagttaa 900
atcctgtctc tacaaaaaat ataaaaatta gccaggcatg gtggcttgcg cctatagtcc 960
cagctactca ggaggcagag gtgggaggat cacctgaacc caagaggttg gagctgcagt 1020

gagccatgat ggcactactg cattccagcc tgggcaacag agcaagaccc tgtctcaaaa 1080
 ggaaagaaaa aaaaaaaaca cttactggag agaatccaat gcagccttga tggtagagga 1140
 ctgagtgtca gtgacccggc tgggtgccag gccaggcggc cctgcccttg gctgcatgtc 1200
 catttatggg aatcagtttc ccaatctatt aaaaaattct agtgttggct ggggtgcagtt 1260
 gctcacgcct gtaatcccag cactttggga ggccgaggca ggaagatcat gaggtcaaga 1320
 gatcgagacc atcgtggcca acatggtgaa accccctctc tattaaaaat acaaaaatta 1380
 gctgggcgtg gtggcgacaca cctgtagtcc cagcaacttg ggaggctgag gcgggagaat 1440
 cacttgaacc cgagaggcag aggttgcagt gagctgagat cacatccctg cactccagcc 1500
 ttggtgacag agcgagactg catctcaaaa aaaaaaaaaat tctagtgttg ttagccctcc 1560
 cttatgtggc actgcagcag gttactaatg gacgagaagc tgttggggga agtagagttg 1620
 tagggtgttg gagctagaaa ggctctggag tgctctagtt tgggcctcca ggtctctaga 1680
 taggacagcc aaggccctga gacactgata ccatggccaa gatgtcccag caggatggca 1740
 ggcagtgcc acagtccagc gctcatccca gctccccaag gccttgggct gcagccactc 1800
 cacggtgcc actcatagtg gcagattctt caaccatccg gtctttgtaa gttgctcact 1860
 gccttccct cttccctgcc tcttcacccc catgcccaga ttccaattca gaagaggccc 1920
 ttcctgcgtc agggaaaagc aagtatgaag ccatggattt tgacagctta ctgaaagagg 1980
 cccagcagag cctgcattga taacagcctt aaccctcgag gaatacctca atacctcaga 2040
 caaggccctt ccaatatgtt tacgttttca aagaaatcaa gtatatgagg agagcgagcg 2100
 agcgtgagag aacacccgtg agagagactt gaaactgctg tccttt 2146

<210> 887

<211> 2679

<212> DNA

<213> Homo sapiens

<400> 887

attccatgtt tcccatcagc tgteccctgt gtttgaggag ctgagccctg tcttggaagc 60
 tgtattggcc cagggccacc caggggtagt cattgccctg gtgggggcct gtcgcagagt 120

tggggcctac caagccaagg tcctacagct cttgttggag gcattccact gtgcagagcc 180
ctcatccccg caagtggcct gtgtgcctct ctttgccact ttgatggctt atgaggtgta 240
ctatggactg acggaggagg agggggcagt gcctgcagag caccaggtgg caatggccgc 300
agccagagcc ttgggggatg tgacagtcct tgggtctcta ctgctccagc atctgctgca 360
cttctccact cctggtcttg tacttcgaag tctgggtgcc ttgacgggac cacagcttct 420
gtccctcgcc caaagtcccg ctggctctca tgtgctcgat gccatcctga ccagcccctc 480
tgtgacgcgc aagctgcgcc gccgtgtgct gcagaacct aagggacaat atgtggctct 540
ggcctgtagt cgccatggca gccgtgtgct agatgccatc tggagtggag cagccttag 600
ggcccggaag gaaattgctg ctgagcttgg ggagcagaac caggagctga taagagaccc 660
tttcggccac catgtggctc gaaatgtggc cttgactacc ttcctaaagc ggcgagaggc 720
ttgggaacag cagcagggtg cggtaggcaa gcggaggcgg gcattgaact ccatacttga 780
agactgaggc tttggatctg ggactgggtg ttgatggggg agggcaaaat ggggtatcca 840
ccccatccct ttcctggttt aaattggagt cagaagctt agtggtaaat atttgatatt 900
tttattggaa atgtttttgt tagtttgagg ggaagggtat gaagacagat ctcaaggtaa 960
agtcagagag ggctgtcatc agtatgctgg ggagtttagg gacaggaggc attggtaggg 1020
gattagatgt agcagcagtc aggctgggat caagatgcct gggggacatc ttgatcttgg 1080
cctttcaggg caagtgggag gctagaaagg tggctaggaa agaacagcat tcttcaggta 1140
agggtataga cttgggatgt gaggcgttat gctgaaaggt tctgtcacga ggggatcaga 1200
ggacagtggg gaaattgggt gggttatcta gcctgtactg tctgcaggtc ctgaaatttg 1260
atgctgtcat agtctttgca gtgggtcggt tggaatgatt ctgggggcag aagctcagag 1320
ccccttagta ggaatggagg cggcccttct gctgccactg ctcagcccc tccactgcat 1380
gacgaagggt ggaggaaatt cccagcaaca tatggcccag gccttgcagc agtgtggagg 1440
tccaacgaag gagctccctg aatggcagag acaagaggaa atcagatgat ttggaaaact 1500
tgggaggaag ccatcaagct gggagatgag gactttccac aagcaagagc taactagggg 1560
taggtgggtg caagaggacg aattatgggg actatccaac tgtaggggat ggggcagtat 1620
gacatgttga tttctgacct gagtactttc tttgggcaa gtccttgaaa gtcacaactc 1680
atagagtaga gcccgtagaa tgtggctttg acattcaggc tgccaaagag gtctcgaggg 1740
ttttgcttgt acacgtcaaa ggtgaatcgg gcgatgtcct tgctgtgctt gggcctctcc 1800
cgtcccaggc catatgacag cactccactc tgtaggacac cttgtcagt gcagtagatc 1860

ctcataccag acaccacca ctaatctcca tcagcactgg gtcagaccct ccctcgcttg 1920
 gactttctgt ccactgtgtg acatccttga caattccaca actcctcctg cacctgggtcc 1980
 ccaggatcag ggttaagcta gagaggaagc ccgggaaagc tctaaaggac aggcatgtga 2040
 agcagcccca gtataggcct cttacccttg tagggctcca gctctgacca gactgcaaca 2100
 ccatcaggca cgtgtcatcc tccagcagct ggaagaagtc ctcactgtcc actgcagttc 2160
 catcctcctc tagcaccagg gttagcactc cattcagcag tagggctctcc aatgcctgcc 2220
 caatggcaag aagcaagaag ggcaggtctt atcccatgcc ccttcctctt ttagctgcct 2280
 atatccccta aaggtggagg gtagagcgga gggttagcag tcacctgagt aagtcactgg 2340
 ggttcagagc tgagaggtac tccatggtgg accggagagt tccttccttg gaacttctgg 2400
 gctgggtggt tctctcctgt gctggggctt tagtggtgtt ttctgttaca aacctgggat 2460
 ctcagcccag gacaaggtgg gaatgagtca agcctggact ctggccccc tgcctggcca 2520
 gtaagaaggg caaagtccaa ggggagggat gagggagggg ccagatgggg tcctggagga 2580
 agaattgcct ggcaaaagcc attggagctt gtatgtgtgt ctttggtgat gacatgtgtt 2640
 gtgagggtag atgggaacca tgtaaaagga tgaaatgtg 2679

<210> 888

<211> 2690

<212> DNA

<213> Homo sapiens

<400> 888

ttgcttttga tgagagagtt ttccttgaag cttttgggtt tgacaacact ggaacatttc 60
 aggtgattcc agttcctcca aatggggaaa atcaaacatt agaaagactt cggcgctgtg 120
 cactttgcta tgataaatgt tttccaaatg cttgcattcg agaggctttc ttacctgaag 180
 attcatacat ggatgtagtc ttctcatag acaattctcg gaatatagca aaggatgagt 240
 ttaaggctgt gaaagccttg gtgagctcag tgattgacaa cttcaacatt gcttcagacc 300
 ctttaatctc agactctggt gataggattg ctttgttgag ctattctcct tgggaaagtt 360
 ccaggagaaa gatgggtaca gtaaaaacag agtttgattt catcattat gacaaccaac 420

tcctaataagaa gaatcacatc cagacttcct tccaacagct aaatggagaa gcaacaattg 480
gtcgtgccct actgtggacc actgaaaatc tttttccaga aacaccctat ctaagaaaac 540
acaaggtcat ctttgtggtc tcagctggag aaaattatga gagaaaagaa tttgtaaaaa 600
tgatggcttt gagggctaag tgtcaaggct acgtcatatt tgtgatttct ctgggctcta 660
cacgtaagga tgacatggag gagttagcca gctaccact tgatcaacac ctgatacagc 720
ttggggagaat acataaacca gatctgaatt atattgcgaa gttcttaaag ccatttttat 780
actcggtcag gcggggattc aatcagtacc caccaccgat gcttgaggat gcctgtagac 840
tcatcaattt aggaggagag aatattcgaa atgatggttt ccaatttggt actgagctac 900
aagaggattt tttgggagat aatggcttca ttggccaaga attaaattct gggagagaat 960
caccttttgt aaagacggaa gacaatggaa gtgactattt ggtttacctt ccaagccaaa 1020
tgtttgagcc acaaaaatta atgatcaatt atgaaaaaga tcaaaaatct gcagaaattg 1080
caagtctcac ttctggacat gaaaattatg gcagaaaaga agaaccagat catacttatg 1140
aacctggaga tgtctctctt caagaatatt acatggatgt ggctttcctc atagatgctt 1200
cccaaagagt aggaagtgat gagtttaagg aagtaaaagc ttttataacc tcagtgttg 1260
attactttca catcgcccc actccactga cctccacctt aggagacagg gttgctgtcc 1320
tgagctactc tcctccaggc tatatgccta aactgaaga atgccctgtc tacctggaat 1380
ttgatttggg tacttataac agtatacacc aaatgaaaca tcatctccaa gactctcaac 1440
agctcaatgg agatgttttt attggccatg ccttgcagtg gacaattgac aatgtctttg 1500
taggaacccc caatctgagg aaaaacaaag ttatctttgt aatatctgct ggcgagacca 1560
actctttaga caaagacgtc ttaaggaatg tgtctctgag agccaagtgt caaggctact 1620
ccatatttgt gttttccttt ggccctaaac acaatgacaa agaattagaa gaattagcca 1680
gccaccctct ggatcatcac ttgggtccaac ttggccgaac ccacaagcca gattggaact 1740
atatcatcaa gtttgtcaag ccatttgtcc atttaatcag acgtgccatc aacaaatatc 1800
ccaccgaaga tatgaaagcc acatgtgtta acatgacctc tccaaccca gagaacggtg 1860
gcacagaaaa cactgtatta tgggtgaagat acaaggtcat cataggggaa aagaagatag 1920
ctccactgac atgtataatc ccatgtgggt ctaaccagaa tgtataatca tctgttagag 1980
gtactgtggg aatgacagg gacttttcac aaaaacaatt ggctaatagc atgctaaatt 2040
tgttctccat ctcaaattctt gaggagaaga attttcggag tgaagacatc agtaagaaga 2100
cctgacaaac caggaatgat ttcatttctc ctgagaactg gggaaaccga cctataagag 2160

ttaacttttc tttgaaagct ctgcacagtt caggcatcaa ttttgatgat gtatctgcct 2220
gtaaaagatt gtcattatct tcaacacatc tgtatctcag attggactcc tctaaaagca 2280
tttggaattg gaatttccta ggaatatctt ctactaattc ttaaaactgg aaagccatgc 2340
ccatgtcatc ggttctgggg tgaccctaac atttcatcta gcagtgattg tcttctaaaa 2400
cccacctgac aggctgctat gacccatagt taatgctttc tcttcaccag gacattgaca 2460
aaagaatgga attggtgaaa aagaaaaaag tgataagagg ctaattttat gaaccatatt 2520
ttttgctgta atcttttggt taaatttttag catgctttgc tttgtgtata ctgaattttt 2580
gcagcaaaaag aattacggaa aagcacagat actctatatg accagagatg ttcttgggaa 2640
ttacaatgta gcaagagata atttctaaaa taaaaacaag tctgacttgg 2690

<210> 889

<211> 2107

<212> DNA

<213> Homo sapiens

<400> 889

agctgggctg agactgaggg agagaagctg gaggctgac tttggtccagc agaagctgag 60
cagagctgct gtctttgggc tttcagggtg gctggctcct ctggctgatg gcatgttgag 120
gtacatgggc cagcggcagc gagggcatcc aatccagagg ggtccactct agaggccagg 180
ccaccagcac catgggccag tgtgtcacca agtgtaagaa tccctcatcg accctgggca 240
gcaaaaatgg agaccgtgag cccagcaaca agtcacatag caggaggggt gcaggccacc 300
gtgaggagca ggtaccacc tttggcaagc cagggtggaga tatcctcgtc aacgggacca 360
agaaggccga ggctgccact gaggcctgcc agctgccaac gtcctcggga gatgctggga 420
gggagtccaa gtccaatgcc gaggagtctt ccttgcaaag attggaagaa ctgttcaggc 480
gctacaagga tgagcgggaa gatgcaattt tggaggaagg catggagcgc ttttgcaatg 540
acctgtgtgt tgacccaca gaatttcgag tgctgtctct ggcttgggaag ttccaggctg 600
caaccatgtg caaattcacc aggaaggagt tttttgatgg ctgcaaagca ataagtgcag 660
acagcattga cggaatctgt gcacgggttc ctagcctctt aacagaagcc aaacaagagg 720

ataaattcaa ggatctctac cggtttacat ttcagtttgg cctggactct gaagaagggc 780
agcggtcact gcatcgaggaa atagccattg ccctgtggaa actagtcttt acccagaaca 840
atcctccggt attggaccaa tggctaaact tcctaacaga gaaccctctg gggatcaagg 900
gcatctcccg ggacacttgg aatatgttcc ttaacttcac tcaggtgatt ggccctgacc 960
tcagcaacta cagtgaagat gaggcctggc caagtctctt tgacaccttt gtggagtggg 1020
aaatggagcg aagggaaaaga gaaggggaag ggagaggtgc actcagctca gggcctgagg 1080
gcttgtgtcc cgaggagcag acttagtggc tctgtcccag gagcagcagc aaggatctgc 1140
cagctgccct gcagccaact gaggaattgg accattttgg aaattactga agatccggat 1200
atcttctact ttacaccttt ctctgccttg tatctgaaag ggctctaaaa tgctgtatca 1260
tgttttaggc actttcttca ttttttgggt tattttgggt atttcctttt tgggggggac 1320
tcccagaata tttgaacctg gttacatgtt gtgtatcttt ttttgaagcc ttcagataga 1380
ataagcctgc catttcttgc acaaatttag gttttttttt gttttttttt gttttttttt 1440
tttttttttt ggtaggggag ggcatagagc agggcggggg gatgggactg ttaggttgaa 1500
ttaacattac aaaatgatac agtgccagat ctcagtttcg catattgttt ttcagggcag 1560
gtctgtactg tgtgtagtgc tgtttacata gatgaattta ggttgtaata attattttta 1620
aagatttaca cagatttgaa tagcagtgtt aactgttaac cacattgcat taattcccag 1680
gcgatttaga gctcttggag agccaaggcc agccaagagc atttgtagtc tggtgacaac 1740
ccccttttaa gctaatttat ccagaaccct gatttccctc acttcttgct cattccttct 1800
ttgacctatt gcatttcatg ttgagttttt ccatcaacat gctgcacctg tcagtcaagt 1860
gagcattttt taagaacaca ttgtactgag aaccacttaa gcattgaatg cggagaaagc 1920
agtgtacct cagttttgct ggaagtagac ttctttgata gttttctttc tttgatgaag 1980
tttctgtatt ttcattgtcct cagaaaactg tactggaagg atgggtggca ggaacttgta 2040
tagttcagct tccaacactt tggaacagat taaaaaggga atcttttaaa taaaaacgta 2100
taaaaat 2107

<210> 890

<211> 2713

<212> DNA

<213> Homo sapiens

<400> 890

cttatcggct	tacccagacc	ttccccatt	aatgctttc	cctccctccc	atggcccttc	60
cgttttcccg	agcccagctc	tgtggcgttg	atctgctcaa	agttttggta	cttgtggtgg	120
gtgtgcctga	gtctctttgt	tctgacttta	ctgagacatt	gatcgccgta	aaggtcccat	180
ctcttgcagc	atcttctgaa	tttctcttct	cgtttaaaaa	cttccctcaa	tatccacttg	240
gaaaaagata	aaattagatc	cattcctcac	atcacataca	agaaggaact	ccaatagac	300
tggagatctt	gacataaaga	agaaaactgt	acaaaaacca	gaagaaaccc	gagggaactt	360
ccctgaaacc	cgggtgtagg	gagaagtact	gactcccacg	ccagcacaat	taaagaaata	420
ctgatacatt	tggcttcata	aaaataaact	tgtactgtgg	caacaaacca	caagtgaagt	480
ctatagataa	aagacagtct	gggatataata	ctttcaaatg	gttaaggtgg	tacagtttat	540
gttatgtgct	ttttaccaca	atttaacaaa	aaaggacaga	atgggggaaa	atgatctgca	600
acatacatca	cgagcatggg	gcctctgctg	tgtcccctcc	gcagcactcc	ctctggagaa	660
cccagccaga	cccagacagg	aggagacggc	agccagtcag	ggagcactct	tcagacacgg	720
ggagcgggag	gaacgtgatc	atcacaaacg	tccatgtcaa	agacaaagcg	gggctgagga	780
aatgttccag	attgaaggaa	atgaaagaga	caattgaatg	tgtggcagga	cattgctgag	840
gcaagagcta	cagctggaat	gcagttgggt	gacttaaata	taaacattta	atgctccctt	900
gagggaccca	gctgccacgg	tgagagaagc	tcaggccaca	tggaagccac	acgcaggcgt	960
tccagtgcc	gcccagctaa	cagcccacag	caactgccgt	cacgggagtg	agccccacg	1020
gagtccagcc	gggcgagtct	tcagatgcct	ccagcccca	atgccccga	ccacaaatgc	1080
ctcagccctc	aggtgcgccc	tgcacggcca	agcccagcca	atcacagaac	tgaggagac	1140
agcaaggcat	tcgttggtga	agctgagggg	gtgggggggg	ggttaggggtg	tttgttatgc	1200
agctgtgcag	catggctgca	gccctgacgg	aagaaaaggc	tggctcctgg	gaggtcaccg	1260
gagagccctc	ggtgtgtcct	acctcatagg	agcgtctctt	tatctggggc	cctggggcac	1320
agtggacagt	ctatgctaag	gatgtgattt	aggggtgggg	ccgtgggtct	ctctggaggc	1380
tacggtcagc	cacgcggggt	gagcagtcct	catgaccaac	ccctgaagaa	aaccttgat	1440
gcagaggccc	gggtgagctt	ccctaggtgg	ccacactcca	gcacgtgtc	gcatccatgc	1500
ggggaaaata	agcgctgtcc	acacagctcc	acgggagagg	gcagtgggac	gcttgcgcct	1560

gcctcttccc tcctctcatt ctcatcccca tattcttgct ataataggcc ctactgtga 1620
 ggataatgac cataccgagt cctgggagac ctctgaact gcagcggcag ggaacccga 1680
 caccagtgat gtctgagagc ctacagctg cccgcctggc tgactcccat caggtctgaa 1740
 gcaccctccc gacagtcatt gtggctgttt ttgtctttcc caggagaaat gaatggcact 1800
 ggcaacctgg gcctcgtgcc tgttttcctg aagccatgtg tacttggtt ctggaccgtg 1860
 gcgcacctga cccagaagg cggtgcactt actgtaaggc tgatgggcct tagagaacac 1920
 ctccccagcg cctacgcgca atcaggaccg cggacgcctc atgtctgcct gggaggtctc 1980
 caaaggcca aacactcccg gactcggccc tgcaggagtc atttctgta gaccatcccc 2040
 cagtgccaca taccactgga gaaagctgag tccagaggag ctcaaactg aaaacacaat 2100
 ctctctggag ggtcaaggcc tggcaggcca gcctgaatgg aatccaactg tacctgtgac 2160
 taagagccaa ctgggagtga gacaagggtc ctctggtctc cctggatgac gggagatgcg 2220
 cgcctcatcg tgtgatgtca agaaccactg ctgggcctac cctgagcagg gagcaggag 2280
 cggcactgtc atgcttgtt ctggagccag caaaggatga ggctatgcct cagcttccgc 2340
 tccgctccac tcagtgttg cctcatgcc ccaccaggg ggcagaactc tcccaggag 2400
 cccacggtgc tgggcagagg cagaggccac ttgggcggtc agcccagagc tgggtgggcc 2460
 cggccagcgg gactttgcgg cctccccacc ctccgatct cctgagcagg cgtaacccaa 2520
 cccgggcagc tccttcggct ccaccatcca gagacaagct gacttccgat aatgacttta 2580
 ttttaacata ttttaattaca gctgctccac ctcttcctc tctgtccagg gagcagaccc 2640
 tctggccagc ccctgactct gccctaccc cctctgcaaa cctaaagggg aataaatata 2700
 aactttacaa agt 2713

<210> 891

<211> 2226

<212> DNA

<213> Homo sapiens

<400> 891

gatgcacag aggaagagga agggatcctc gcaagctttg aaaggcgccg tcaagtcaaa 60

taaataaatg ccctacaaca ccaaccagg actgagatct gcatgctgga atgacggtgg 120
tggtggtggc ttctagatt cccaggttt tgtccggagc accggcacgc cctctcttga 180
agtccgctct ccgcacagtg gttagacggg aagatccgga gctgtccagt gtcttgggta 240
atgcacggca tcgcctgatg tctgacgcta gaacaccacg taaagtcaag cagagggaag 300
tgaatgcgcc ctagggccct gcaggccacc aagaagagct agagggagtt ggtgcaatcc 360
tagagatgcc ggcaagtgca ccaatctgtg gcacacgtac gctctccaat ggaagacaac 420
tcaagaccac accaagtttg tattaaaaaa gtactgttgt gttacttttt accaacctcc 480
aatcattata caaatgtta aaagatacac aaacacacac acacactcac agccatagag 540
gttatcgcaa aagatcaacc cagaatcttt cagaatatga cagatgcact gagaaggcag 600
ataaattgat tcaatataca aaaggcctct ttcctatgga atttcattag attaaataag 660
gtgttccctc ctcacagcct catccttatg agcagtcata taaataatct atttaaagtc 720
cttgaactat aacttgata atttttagtt tcccccttt gaaggggcct aagagaaagg 780
tttgagaaac cagctcttga ggggggcagg ggtgagggtt aagaggtcct gtgcctttca 840
ttcatcctgg gagcttctca ggattgcagc atttccacct gagtgttcat tcttgtacat 900
tttctcatct ttctcctggg ttcctaggat cttggagatt acctagtcca atccttttac 960
ttcagaaaca aaaaacctga ggctcagaaa ggctaagtca aatgcctagg gtcacacagg 1020
gaaactgtgg gagttggatc cctgagtccc agtccttaaa ctggttgcta catgacattc 1080
tagaacctct cccaccaac tcccttttta aagacggggt ctggttctgt caccaggct 1140
gaagtgcagt gacgtgatct tggtcactg caacctccgc ttcctgggct caagccattc 1200
tcccacctca gcctccaag tggttgggac agcaggcgca tgccactacg cccagttaat 1260
ttttctaatt ttgttttgta gagacagatt tgccatgttg cccaggctgg tctcgaatta 1320
ctggcctcaa gcgatacgcc tgtttaggca tcccaaagt ctgggggttac cggcaggagc 1380
aattgtccg ggccagactt cccttcccc gccacaccc cccaaccg gcctagatcc 1440
acaggcactg taatcacagc tgacacactc gactcggaat cagcatagag agcactctga 1500
aaattgtcaa atagggtccc tgaaacttgt ataccatact tctcctgaag atcttgaagc 1560
atcttttgtt ttgttttttt tttttaactt aaaatatggc attcaggttt tatccctctc 1620
cccgacgcca tgtttccttt ctgtattagt cacacacgtg atcctaaagt ctgtcttccc 1680
cactttaact ggggagggtt ggacaagggt gaattccaat tgcaggagac aggatgtgac 1740
atgggtgagg tgcccaaggc tcaccgactg aaacttcgat ggctcttccc tgtttccttg 1800

tgcagggccc cccttctctc cactgctcac ctggctctcc tcctcccttc ctgcctgctt 1860
 tgcagctctt gctactatct tccttttctt tccctgctcc caccctggcc caatttatct 1920
 cacagaaata tcacagggcc agccaggcac agcggctcac ccctgtaatc ccagcacttt 1980
 acgaggctga ggagggcaga tcgcttgagg tcaggagttt gagaccagcc tggccaacat 2040
 ggtaaaatcc tgtctctact aaaaatacaa aaatttgctg ggcgtggtgg caggcgcttg 2100
 taatcccagc tacttgcgag ggaggctgag gcggggagaat cacttgagcc tggggggcgg 2160
 atgttgagc gagccaagat cagccattg cgctccagct tgggcgacag aacgagactc 2220
 tgtctc 2226

<210> 892

<211> 2094

<212> DNA

<213> Homo sapiens

<400> 892

aatgaaaga gggagcagga ggcgccggtc ccagccacct cccaaggctc ctggctcagc 60
 tctgacaccc cagtcccggc cccaggggtga gtgggggttg gtggcggttt aggggcacca 120
 ggggcgtgtg gggacctgtg taagtgtggg gtggggagga tctcaggaga tgtggaggct 180
 ggaggcacag gaggccaggg aggagggaga agcctggtgc cgcactccca ccacgtggg 240
 gtaggagggc agggcacct ccgacaaagg accctgtgag agttatgaaa gcggagttgc 300
 ctctgtacca gccccacc ctgagaggag ttcactgcag taaaaatggt gagagaaatg 360
 gtgggccaag aaaggagtgg tctcgctgcc tctgccactc cactcctcc catgggcacc 420
 aaattgggtc tagcgtctcg ggttcgaggc tccactcttc ccacagcatc cttgacagct 480
 aagggcaccg ctgggtttcc gcttccgaaa ccaggcaagt caggggctgg tccagctgat 540
 ctccaaggct cttcctaaga atctgggatc tggaggatcc cagggtcgaa cggagacggc 600
 tcagggggtg cggctaaaat gcaaatgggg gatcctcccc agcaccatc ggtcccaaag 660
 agaaggtaac ccatagctga gcgtcgctg ctcccctcgg gccctcccgt ggccctccgt 720
 ttcatactgg tctcatcgct aaaccgggc ctctcctacc tcacgactca ccctgaagtc 780

agagaaggctc caacggaccc caccgata ggcttgaag gggcagggt ccctgacttg 840
 ccccatcccc tgactccccg ccccgctcc ccagcgccat gggggagtgg gcgttcctgg 900
 gctcgctgct ggacgccgtg cagctgcagt cgccgctcgt gggccgcctc tggctggtgg 960
 tcatgctgat cttccgcata ctggtgctgg ccacgggtggg cggcgccgtg ttcgaggacg 1020
 agcaagagga gttcgtgtgc aacacgtgc agccgggctg tcgccagacc tgctacgacc 1080
 gcgccttccc ggtctccac taccgcttct ggctcttcca catcctgctg ctctcggcgc 1140
 ccccggtgct gttcgtcgtc tactccatgc accgggcagg caaggaggcg ggcgcgctg 1200
 aggcggcggc gcagtgcgcc cccggactgc ccgaggccca gtgcgcgccg tgcgccctgc 1260
 gcgcccgcgc cgcgcgccgc tgctacctgc tgagcgtggc gctgcgcctg ctggccgagc 1320
 tgaccttctt gggcgccag gcgctgctct acggcttccg cgtggccccg cacttcgcgt 1380
 gcgccggtcc gccctgcccc cacacggtcg actgcttctg gagccggccc accgagaaga 1440
 ccgtcttctg gctcttctat ttccgggtgg ggctgctgtc ggcgctgctc agcgtagccg 1500
 agctgggcca cctgctctgg aagggccgcc cgcgcgccgg ggagcgtgac aaccgctgca 1560
 accgtgcaca cgaagaggcg cagaagctgc tcccgccgcc gccgcccca cctattgttg 1620
 tcacttggga agaaaacaga caccttcaag gagagggtc ccctggtagc cccacccca 1680
 agacagagct ggatgcccct cgcttccgta gggaaagcac ttctcctgca ggatggcatt 1740
 gctctctccc cttccatggc acgtagtatg tgctcagtaa atatgtgttg gatgagaaac 1800
 tgaagggtgc ccaggccta caccactgcc atgcccgaac actatccatg ctatggtggg 1860
 caccatctct ctgatgacag ttctgtgtcc acaaccaga cccctccaca caaaccaga 1920
 tggggctgtg ccgctgtttt ccagatgtat tcattcaaca aatatttgta gggtacctac 1980
 tgtgtgtcag aagatgttca agatcagcat catccgatgg aaatagcata tgagccatgt 2040
 atgtagtttc aagtttttca ttagccgcat taaaaaagta aaaggaaaca aatg 2094

<210> 893

<211> 2198

<212> DNA

<213> Homo sapiens

<400> 893

aaagaactaa gagaccttaa gttgatgggtg ccctttgttg aaataaggga aggcgggcag 60
aacgctgccc caattttttg acaaatgagt ttgaggctac ctggaagcaa gtcagataaa 120
actgtccaga ggacaggaag aagcagagat caggaggggg aggtcgaggg ctggaactta 180
agagatttga aatcccttta cgtatgacag tggcttgttg gatgaagggc actacaaact 240
gatcagtgat agccagactc tggggaaatg ttttccccac aattcaatga aaaatcttga 300
acaaacccaa ttagattagt attttcagta ttgagagca aaagaaaacc acttaagtgc 360
tatcgtatgt gagctgagta atggatttaa cttacatctt tatacaaagc ctccaatctc 420
aaactgaaat tttgaagaaa atatgacaaa aatgtatttg tgtacctggg acttaaatag 480
accaataatt aaaaattaat ctctagacca ttcttttttag ctccacttaa acagacgatac 540
tggttcaggg actgacgaac tttttctgta aaagaagggc cagatatatt tcagactttg 600
caggccacat ggtctctgcc tcaactattc aactctgcca ttgtgtgaaa gcagccacag 660
acaatatata aatgaacaag catcaggcta gattcagcct gcaggcagtt tgctaacccc 720
caacctaatac catgagatca taatcataaa caatggaatg gtacatcccc ttgattaaat 780
tcagactgct tcccgatcat gtattttgcc attacagccc aagagcactt attctagttg 840
ttggttggtc atagttcatc aaataacagg aatataatgc atctactggg gttaccgaat 900
gtgccaaagg gccccatccc cttgtactct tgagcgtgcc tttcagaggc gcaggatgcc 960
cctcgtgagc tctgggagta ggcacaaatg cccattccgt tgccggtgtc ttcagtaggg 1020
aagcaggga aagggaaatt gagaacatat ttacacagcc agaggactcc gagtatatga 1080
ctagaccact aagaacaatg cagactgaaa acatggttat agtttttcac actaaacgta 1140
gtaaccgtag taaccatagt aacactacca gtaactgagt gaaggctgtt ggtcacttgg 1200
cttgtgaaac cgagcattaa cagttccaga aatgagctta ctaataattt ttatatattg 1260
gtatcccctt aactgtttta tgtgatttat ctaatatttt gacattgttt tcattttggg 1320
tttcagggga gccctggaag cttatgttca atcagtgaga agtagagaag gcaaagaatt 1380
tgcaccagtt tatcccataa tggttcagct gcttcaaaag gctatgtctg ctcttcagta 1440
atgacatgaa atctttgttc atctccactt tgtgctaacc cattcatagt tggcagttaa 1500
acacatactc caaaagactg ctactatcta ctattttaag aatgtaattg attgttcggg 1560
atttcctatc gacgtttatt tacctcttta gcacttatac tttagcataa aaaatgttga 1620
gttatcacca cctttcaatt ccatggacct gatTTTTTcca gaaagatgtt ttcctctttc 1680

agatttttgt acaaggctaa aatgtctttc ccatccataa ccaagtcctc ctatgggtac 1740
 ataaacccaa agtccccact tcttttaaag ggatatgatac aagttataac atgtaccctg 1800
 cttcccccaa ccttgccttc ttcactaaat aagcatgtag ctcatgggtt tccaaatttg 1860
 gctgcacatt cataccaatc accaggggat ttttttaaaa tcctgatgcc caacttgcac 1920
 tccacattaa ttaacatgtc taggagtggg agcctgacag acaccactat taaaaaaaaa 1980
 aaaatcccca aaatgattcc aatagacaac aaagttgagg aaccactggc acatcccaag 2040
 ctaagataca aggttaaagt gcctttttta gtatgtcata ctggatcttt aaataaagca 2100
 aggcttttgt tacactttgt catgttatta aaagcagacc tttgggctgt ttaaccgtgt 2160
 aacaaaaatg ccacgtgaaa aataaaaaatt tttattgt 2198

<210> 894

<211> 2815

<212> DNA

<213> Homo sapiens

<400> 894

atttccagt gatgcaatag tgccgaccat gtgcacatgg ggtcaggatc tcaggccac 60
 cagctggact gcagcgagta cccatggtct cagggaagaa gtcccctgct gcaggctgtg 120
 ggggacctcg gctctcacag tggctatgcc tgagaaagcc cctccagact tgccaacctg 180
 gcccgcgtgt cctgtccgga gggcaggggtg gggctgggtgc tggttacaga tgatcctcaa 240
 gggcacagca cgcaagccac caggcgcccc tcctgcagct gggtcagaga gaggcacagg 300
 gagcctggct ccctccaggt cagtctccac cagggccacc ccggtgacct gcaggagagg 360
 aaggcagacg aggagtggcc ctgcccctga gggcgcatcg tgcaggtggc acaagggggt 420
 catctgcatc ctggtcaagg gggagccac ctgcctcctc caggtcggga acactccctg 480
 gaggccatgg tgtggagcgt ccacccgggc ttcgtcctcc agctcagctg ctgggccctg 540
 ggaagggaca ggcccagcac ccgttcagcc gggctgagcc gcaggcagag cgccttgctt 600
 gggagagaca aaccaccgc tgaggacaca ccctcaaggt tcacccttcc ccacttctgt 660
 gttgccctta gctctaaggt gctaattcca tctctagttt caacaggctg attgctctta 720

agggaaaatg gggttgcaca atccgactgt ggtggccggg gctcttggtc tccccccagt 780
aagaggatgg actttccagc cctgctgatg gtcagcgggg accacgtgga ggctttggca 840
gatgaaatgg ggcacatgac atagccctgc cccagtggaa gcctcagagc catggctggg 900
ctccgccagg cttgctccag cggccatgag gaccatgccc cacaggcagg ggctgcacct 960
ccaccctggt tccagaagga agaggcacag ccgacatgcc gctcgagcag gaaaccctgg 1020
ggaaggtggg acatgagatc ctgtgtctga tactacagtg taaccggcta gaaactgact 1080
caaaggggca tttttacagc agaaagaggc gaagcacacg tgcactctgcc atcctgtgat 1140
tgtcaggccc cgtttaggag tggacagctc catggttgtg tttgagcccc acaccggccc 1200
tgggggggta tactgccctg gaggacagct gacctcagtt ctccaagctt ccattccccc 1260
ttgtatgggc acagcacccc aaccttcttt tggcagctcc cagcccccc agtgctgggtg 1320
ggctctaggg ctctgggtccc tgatgctcag aggcacagag acagcattcc tcaggggccc 1380
tgatcctctg gcccggttca gactgtgggtg gggcctcggg acctttccag aaccttggaa 1440
gtgggtagca ccttttgctg ggacagacat gcctggagct ccgggcattg ggccactgct 1500
gggataagcc cacgacagaa tgaagccggg caggcagaaa gagctgcggg ctccctggcc 1560
actcctgttt ccgtaaaggg cctgggtgtct catttcctac ttaccttga ctttaagggc 1620
ctcctgcagc ctttgtcaca cactcttctt atttttttgt ccattacaac cttttacagc 1680
ggcacaagcc attgtttctca gggccaacgc gtgagtcctg tggtagtggg cctattagtg 1740
tggctcgaga aggtaccccg tgctgacgaa gcctggagag gcagggccac actgcagagc 1800
ctcaggccaa ggggtggcggg gctgggggtct catgagccca gggttcactg cccaccaggc 1860
ggcattagcc tgcggctttg gcgcccagaa gtccgacagg cagcaaagtc tcctgtctct 1920
ggctgtggc caggagagcc cagctggggc tcacctgatc gagaggaaac gcctgtgtcc 1980
tctaatacagc atctcactga cagagtcacc cctggtagag caagtgggct ttcaaggaca 2040
tcagggtggc gcattcaggc tggttaacaac accgccctca gctctcacag tctgaggaag 2100
ccccctgaaa agtcactgga gtgggggtgc aggaacccca caaaggcctt tcctgtctct 2160
gaataattcc caagcaccta ggactccccg ggccctggctt ctccgccagc ccaacctccg 2220
gacctgaaga ccaagcagtg cccaagtgtg aggtccctgg agaaggagga ggaagagtgg 2280
aaggaggtgg agggtaacgc atccagagga agacgtgag ggtcaggctg gccctgggtc 2340
tgacctgtcc ttgggatcaa ctgcttcatt aaaaaacatc cgcctaaact gtggagacag 2400
aggaaggatc agtgcttgcc aagggtggg ggaggaggaa caggcagagc gcagagggtt 2460

tcagggcagt gccgctctgc gtgacgccat cacggagggt ccaggtcatc acacgtctct 2520
ccaaaccctt agaatgccca acactcactc tgaagccttc tgtcaatgtg ggatcatctg 2580
tcgtaaagtc tgcaccgctg tgggtgggggc gtggatagtg ggggaggctg tgcgtgtgtg 2640
ggggcaggga gtgtatggga aatctctgta ccttccgctc aatttggctg cgaacctaaa 2700
ctgctctaaa aaaagtctat ttttaaaaag catatgcccg aaaagtcctt gaaaatgcat 2760
ctttccctaa atattcaaat ttatgttcat taataaaata gcacatattt attct 2815

<210> 895

<211> 2228

<212> DNA

<213> Homo sapiens

<400> 895

cgagcaagag aagtatttca aaaatccaaa cactccagtt gtctgtaagt gcctgttgca 60
gtttttgaag tgggccaggg attaatgga tggggcagat attgtagaat ttccctctaa 120
ttttggataa tgaactgcaa agtaactatg ttggtaaaag caggtgagtc tgttcaaatt 180
cataacttaa agacattgtg aaggatgcag caacagactt ttgtttgttg tgctttggat 240
ggaggaagga aatcccttca ttagattgcc caagacatcg gttgatggca ttctcatcat 300
ttactgtcta agtcaaattt ctcaccatcg ttgtcttcct actgtttcac atctcctaaa 360
gtttctttcc cattcttttt caactgtctt tttcccaacc acctttcttc ctgatcatgt 420
ttctggccca ctgatgagat ccaaaagtac aaggggatca aagagaatac tgatcactaa 480
aaggagtgag tggcccaaaa ctcttttact ctcccatggt tattgcgacc ttacctttgt 540
cttatatttg ctaataacctg actgttgaaa aagattaaaa ttttcccag ttttctttgg 600
ggaaactctt tgggtgctctt ggtatgtaat tgagtgtgca gattcttagt ctaaccaga 660
gttgatcttt cttgattata gtggcccat ctttcatatc cctaggttga ggatctcaat 720
aagaaccttt ctgcattttc ttagctactt atatgattac ttgggttggc tgttttgaaa 780
gttctttaca ctgagaaaat gtgagtatgt cctaaactat gaataattca aaaatctgac 840
taaaagatcc agtaataccc tactgtcctg aacatttcct ttatattata tatgaaaact 900

gttttctgaa cagtgtagga atggagaggt ttgtgttttg ttacaggctt attcatttac 960
ttttacctat gtagtaccac cattttttatt tcataagttg tcttggggaa tgcttctctt 1020
tgtcctactc ccccaacccc acaaagatct agcagaagag gaaagtccca gtacattggg 1080
actcctggat gcagaggtcc ttcccgcctt cagcagaagt cctgagcaat gcatggatgc 1140
ctgaatgtgg gccacgacc tcccacctca tgcagctctt accttccagg cagcctctat 1200
cttgcccaca gtgcacgaca gtgcaggaac tctcctggag ctgagccacc gctgggatgg 1260
ccgcagttga actgggtttt tgtgcctttt acctgttccc ttgatcatga gttttagctc 1320
agataaccag gtattttgaa gacgtgattg tccttggccc tgcccatcc cttcccttta 1380
aagttttaaa tttttttcat gtcttttctt tggccagaat ttctctatcc cctgcatgcc 1440
ttcctcgggt accataaatc tgcattatcc taggaaagat gaagcccaca gattgtacga 1500
tttcagagta cttcctgggc ccctgtgtga tccgacagag gcctgggtcat caagttggac 1560
ttccctatgt gaaaccataa actaacctga ggaagatact gaggggagag gggctgtgta 1620
acggtgactg cctctaggcc agccttctgc caggcagaga acaggaagct ggcatgcagg 1680
gtgtctggca ctggtaaaat gacaccatgt ttgtaagtgc attgtcctgg cttttggtgg 1740
gccgtgcagg agttcctgcc tgaattatag tctttccatc tcatatctt atgtggagcc 1800
ctcaagcttt agacaagtct tttatctccg ttttcaggtg gctccatta tcttgagacc 1860
tcataatgct gctttcctta aatttgttt aactgacgc tagtcagcac agagctactc 1920
acatttctgg ccaccactcg gctccattat cttgacttct ctctgcctt cttacgttgc 1980
atttcttctt ttacaccact gttttacatg ttgctcctcc ttagccattg gttcctgttg 2040
gcttttgttc ttttacctga gttggaaatc tgggaagaca attccaactc agtgggtctgg 2100
gcattctggg ggtgctgcca accccagggc aggaagaaca gtgagtgaga tactgtgcca 2160
ttacctgctt ctccagcctt gaagcccaaa gcagccaaat aactctcaaa tgacgatcac 2220
ttttactc 2228

<210> 896

<211> 1986

<212> DNA

<213> Homo sapiens

<400> 896

attgaaggag aagacagaga tgaaggccct ggcctggtac tcggtaggga acaggaccca	60
gtggatgtta gatgcctcct ctgtcttgct gagactgggc atttctctga gtacagagcc	120
tgggagacag ggcaagtggg agatggggta tgagaggccc tcagtgggga atactggtca	180
ttttggaaac aggaatattc catagctgcg tgaaaatgca gctttttttt tgcttaatcg	240
tcagaaccca caatcctaag ttaatcctgc attacagaat tctgccagac ttcatatcca	300
aaaacccctg gtgctctatc tctttctctt cccttcaccc catacaatcc tgcgggatcg	360
ggaaatgctc atgtcatggg gtagagaaac cggaggtttg ccaagccctt gaggctccta	420
gatcaacgat gcctaaagtc actaacttcc ctgaggttgc agaatgaatg tcttttttct	480
tccccactgg aaaagccata gacaaccatt aaagaaaact tgaaaaatac aggggaagttg	540
atggatgtgt ggccagttgg tgctgtctgt cttcttggtg accaggagta atttgacca	600
tctgggaaac cagacctctt ttcacccagg ctgtttcgtg tgcatactt ctgaggctgt	660
gtgctcagtc aagaccttgc cagagagttg ggggattagc cttaggtcga gaatattctg	720
agcagtagta agaaatttaa aaatcatcca taatttcac actcttattt taagagatta	780
gtttatttcc ttctaaacct tcctctaagt tagtgtatgt gtgtttatag ctgcatacaa	840
ttttgtatga tgcttttttt cctataatat tatatcctaa ggagcacttg aagtcgaatg	900
actttagtaa atcattgatg aggacatttt gagtgtcttt ccattgcact cccaactagc	960
cttctccacc tcttcacttt aaaagcaaca actagttgaa acgtgacgct atccaagtct	1020
ttccggagaa aatagtttct ggagtgagat cattgttggt tgacaatttg ggaaggactt	1080
aaactgagtc cagctccagg caggacttga taacatgttc atgcagtggc ttctttcaca	1140
gcgttatagc accagccctt ccttgtctct caaaccttac agctcaggag gggctgtgaa	1200
tggatgggta aggaattcca gtccttgggt ccttggcacc tgtggtcagc atggggctcc	1260
cactccagaa ttgcgtgcgg tggttttgag ctcttgggtc acggctacat ctggagttgt	1320
tgtggcagag aagcctgggt cccagccacc actctgctct tgaaggtgct gactcagaga	1380
ctccaagca gctgacttca gcattctctc acagctttac accccctctt ccctgcagcc	1440
tgtcttggaa ggaaatcgtg tggttgtggt ctgtcttcag agtggggttg aggggtgcac	1500
ttgaagaagt ggctgaggca gagccagggc cagaataggt agggtcaccc cagagaaact	1560
ccttcactt cactggactc tctatcagta ggaggcttac agtccttgtc cctgccaaga	1620

cagggctagg ggcaaagcgc aagacattac aggtttgcaa tatgttatcc atcatcaaaa 1680
tgagcagtga acaaatccga ctaaggtctg gaagcaattg aacaactctg ttattacttt 1740
tgtgacacat tgtcatggga atgtgtgtga gcttggggct cttgtgtctc tctgcggttt 1800
ctagaggcag cttgacttag agaatggttc tgtccacaga ctgtttctgt gtgtgcgagg 1860
ggagcttcct ggggccatca tgaggatttc ttttcttttg agtcttgtaa agtattgacc 1920
catagaatat gagaagcagg acatgttctg ttcagttggt tttcatgtaa taaaagattc 1980
ttgctc 1986

<210> 897

<211> 2454

<212> DNA

<213> Homo sapiens

<400> 897

ctgtttatTT tttatgatgc agtctctgag cctgttccat ttgaaactga agctccctca 60
atgaccatag ttcccaccac agacattgag cctgtaactg tgagaactga ggctacagtg 120
acaacattag ctccaaaaac atcgcaacga acaagaacac gtcgtccacg tcccaaacat 180
aaaactacgc cagccccaga gacactgcag accaaactag actttggacc tattactcct 240
gggacatctt cagctccaac aacaacaaca aaaagaaccc gtcgtccaca tcccaaacct 300
aaaaccacgc cccatccaga agtacctcaa actaaactgg ctcccaaagt gcctcaacga 360
actcatcgtc cacatcccaa acctaaaacc aactgagtc ccgaagagct tcagactgaa 420
ctggttcctg ttacagacct cgggcctggt acttttagaa ctgagatccc tgcaacaacc 480
ttagctacca aaacatcaaa aagaacccgc cctccacgtc ccagacctaa aactacaccg 540
agccctcagg cacctgagac caaacctggt cctgctacag tcctagaacc tgtcactctt 600
agacctgagg cctcaacaac attagcttcc aaaacatcac aacggacacg tcgtccacgt 660
ctcagaacaa aaaccacacc acgtcctgaa gcacctgaat ccaaaccagc tcccaagcag 720
acaccacgtg ctcttcctaa gccaaaaaca tcaccacgcc caagaatccc acaaacacaa 780
ccagttccta aggtgccccca gcgtgttact gcaaaaccaa aaacgtcacc aagtccagaa 840

gtgtcataca ccacacctgc tccaaaagat gtgtctccttc ctcataaacc ataccctgag 900
gtctctcaga gcgaacctgc tcctctagag acacgaggca tcccttttat acccatgatt 960
tccccaaagtc ctagtcaaga ggaactacag accactctgg aagaaacaga ccaatccacc 1020
caagaacctt tcacaactaa gattccacga acaactgaac tagcaaagac aactcaggcg 1080
ccacacagat ttatactac tgtgaggccc agaacatctg acaagccaca catcagacct 1140
gttctgaata ggacaactac aagacctact aggcccaaac ccagtgggat gcccagtggg 1200
aatggagtgg gaacaggggt caagcaggca cccaggccat caggtgctga tagaaatgta 1260
tcagtggact ctaccacccc cactaaaaag ccagggactc gccgcccacc cttgccacc 1320
agacctacac acccacgaag aaaaccttta ccaccaata atgtcactgg aaagccagga 1380
agtgcaggaa tcatttcatac aggcccaata actacaccac ccctgaggtc aacaccagg 1440
cctactggaa ctcccttggg gagaatagag acagatataa agcaaccaac agttcctgcc 1500
tctggagaag aactggaaaa tataactgac tttagctcaa gcccaacaag agaaactgat 1560
cctcttggga agccaagatt caaaggacct catgtgcgat acatccaaaa gcctgacaac 1620
agtccctgct ccattactga ctctgtcaaa cggttcccca aagaggaggc cacagagggg 1680
aatgccacca gccaccaca gaaccacccc accaacctca ctgtgggtcac cgtggaaggg 1740
tgcccctcat ttgtcatctt ggactgggaa aagccactaa atgacactgt cactgaatat 1800
gaagttatat ccagagaaaa tgggtcattc agtgggaaga acaagtccat tcaaattgaca 1860
aatcagacat tttccacagt agaaaatctg aaaccaaaaca cgagttatga attccagggtg 1920
aaacccaaaa acccgcttgg tgaaggcccg gtcagcaaca cagtggcatt cagtactgaa 1980
tcagcggacc caagagtgag tgagccagtt tctgcaggaa gagatgccat ctggactgaa 2040
agaccttta attcagactc ttactcagag tgtaagggca aacaatatgt caaaaggaca 2100
tggtataaaa aatttgtagg agtgcagctg tgcaactctc tcagatacaa gatttacttg 2160
agcgactccc tcacaggaaa attttataac ataggtgatc agaggggcca tggagaagat 2220
cactgccagt ttgtggattc atttttagat ggacgcactg ggcagcaact cacttctgac 2280
cagttacca tcaaagaagg ttatttcaga gcagttcgcc aggaacctgt ccaatttggg 2340
gaaataggtg gtcacacca aatcaattat gttcagtggg atgaatgtgg gactacaatt 2400
cctggaaaat ggtagatgct gcacaaagtt accttctgtt tcatcattgc aaac 2454

<210> 898

<211> 1872

<212> DNA

<213> Homo sapiens

<400> 898

```
gcaaattgtgc gcaggcgctt aggggctgag gcgcgatggc aggtgtcggg gctgggcctc 60
tgcgggcgat ggggcggcag gccctgctgc ttctcgcgct gtgcgccaca ggcgcccagg 120
ggctctactt ccacatcggc gagaccgaga agcgtgttt catcgaggaa atccccgacg 180
agaccatgat gtgggataag cagaaggagg tcttcctgcc ctcgaccctt ggcctgggca 240
tgcacgtgga agtgaaggac cccgacggca aggtggtgct gtcccggcag tacggctcgg 300
agggccgctt cacgttcacc tcccacacgc ccggtgacca tcaaactctgt ctgcactcca 360
attctaccag gatggctctc ttcgctgggtg gcaaactgcg ggtgcatctc gacatccagg 420
ttggggagca tgccaacaac taccctgaga ttgctgcaaa agataagctg acggagctac 480
agctccgcgc ccgccagttg cttgatcagg tggaacagat tcagaaggag caggattacc 540
aaaggaaaaa ggtgcaactgc ctcaacatgg acagcctctc tttccagctg ggcctctacc 600
tcagcccaca cttctccag gcctccaaca ccatcgagcc ggggcagcag agctttgtgc 660
aggtcagagt gtcccatcc gtctccgagt tctgctcca gttagacagc tgccacctgg 720
acttggggcc tgagggaggc accgtggaac tcatccaggg ccgggcggcc aagggaact 780
gtgtgagcct gctgtcccca agccccgagg gtgaccgcg cttcagcttc ctctccact 840
tctacacagt acccataccc aaaaccggca ccctcagttg cacggtagcc ctgcgtccca 900
agaccgggtc tcaagaccag gaagtccata ggactgtctt catgcgcttg aacatcatca 960
gccctgacct gtctggttgc acaagcaaag gcctcgtcct gcccgccgtg ctgggcatca 1020
cctttggtgc cttctcatc ggggccctgc tctctgctgc actctggtac atctactcgc 1080
acacgcgttc cccagcaag cgggagcccc tggtggcggt ggctgccccg gcctcctcgg 1140
agagcagcag caccaaccac agcatcgga gcacccagag caccctcgc tccaccagca 1200
gcatggcata gccccggccc ccgcgctcg ccagcagga gagactgagc agccgccagc 1260
tgggagcact ggtgtgaact caccctggga gccagtcctc cactcgacc agaatggagc 1320
ctgctctccg cgcctaccct tcccgcctcc ctctcagagg cctgctgcca gtgcagccac 1380
```

tggcttgga caccttgggg tccctccacc ccacagaacc ttcaaccag tgggtctggg 1440
atatggctgc ccaggagaca gaccacttgc cacgctgttg taaaaacca agtcctgtc 1500
atttgaacct ggatccagca ctggtgaact gagctgggca ggaagggaga acttgaaaca 1560
gattcaggcc agcccagcca ggccaacagc acctccccgc tgggaagaga agagggccca 1620
gcccagagcc acctggatct atccctgcgg cctccacacc tgaacttgcc taactggcag 1680
gggagacagg agcctagcgg agcccagcct gggagcccag aggggtggcaa gaacagtggg 1740
cgttgggagc ctagctcctg ccacatggag ccccctctgc cggtcgggca gccagcagag 1800
ggggagtagc caagctgctt gtcttgggcc tgcccctgtg tattcaccac caataaatca 1860
gaccatgaaa cc 1872

<210> 899

<211> 2169

<212> DNA

<213> Homo sapiens

<400> 899

accctgtct ctggcggctc ccacccggga cttagaccct caggtccta atatcccgga 60
ggtgctctca atcagaaagg tctgtctccg cttcgcagt gaatggaacg gatttagaag 120
cctgcagtag gggagtgggg agtggagaga gggagcccag agttacagac ggcggcgaga 180
ggaaggaggg gcgtctttat ttttttaagg ccccaaagag tctgatgttt acaagaccag 240
aaatgccacg gccgcgtcct ggcagagaaa aggctgaaat ggaggaccgg cgccttcctt 300
ataagtatgc acattggcga gagaagtgt gcaacctaaa ccagcaatta cacccaagct 360
cgttggggcc taagccagta ccgacctgg agaaaaagca accacgaagc tagagagaga 420
gccagaggag ggaagagagc gccagacgaa ggtgaaagcg aaccacgcag agaaatgcag 480
gcaaggagc aaggcggcag ttcccgga aaactgtgag agggcaagac gggcactcac 540
agacagaggt ttatgtattt ttatttttta aaactgtatt tgggtgtcca tgaggaaaag 600
ggaaaatcta gggaacggga gtacagagag aataatccgg gtcctagctc gccacatgaa 660
cgcccagaga acgctggaaa aacctgagcg ggtgccgggg cagcaccgg ctccggtcag 720

ccactgcccc acaccgggcc caccaagccc cgcccctcgc ggccaccggg gcttccttgc 780
tcttcttatac atctccatct ttatgatgag gcttggttaac aagaccagag agctggccaa 840
gcacctctat ctcagccgcg cccgctcagc cgagcagcgg tcggtggggg gactgggagg 900
cgctaattaa ttgattcctt tggactgtaa aatatggcgg cgtctacacg gaacccatgg 960
actcataaac aatataatctg ttgggcgtga gtgcactgtc tctcaaataa tttttccata 1020
ggcaaagtgc agagggttct ggatttttag ttgctaagga aagatccaaa tgggaccaat 1080
tttaggaggc ccaaacagag tccgttcagt gtcagaaaat gcttcccaa aggggttggg 1140
agtgtgtttt gttggaaaaa agcttgggtt ataggaaaagc ctttccttgc tacttgtgta 1200
gaccagcccc aatttaagaa ttacaaggaa gcgaaggggt tgtgtaggcc ggaagcctct 1260
ctgtccggc tggatgcagg ggacttgagc tgctccggaa tttgagagga acatagaagc 1320
aaaggtccag cctttgcttc gtgctgattc ctagacttaa gattcaaaaa caaatTTTTA 1380
aaagtgaac cagccctagc ctttggaagc tcttgaaggt tcagcaccca cccaggaatc 1440
cacctgcctg ttacacgcct ctccaagaca cagtggcacc gcttttctaa ctggcagcac 1500
agagcaactc tataaatatgc ttatattagg tctagaagaa tgcatttga gacacatggg 1560
taacctaat atataatgct tgttccatac aggagtgatt atgcagtggg accctgtctgc 1620
aaacgggact ttgcactcta aatatagacc ccagcttggg acaaaagttg cagtagaaaa 1680
atagacatag gagaacactt aaataagtga tgcattgtag cacagaagggt gtatttAAAA 1740
gacagaaata atagaagtac agaagaacag aaaaaaaact cagcagatgg agattaccat 1800
tccaatgcc tgaacttcct cctgctatta agattgctag agaattgtgt cttaaacagt 1860
tcatgaacct agaagaatgc aatttcaatg tatttagtac acacacagta tgtatataaa 1920
cacaactcac agaatatatt ttccatacat tgggtaggta tgcactttgt gtatatataa 1980
taatgtattt tccatgcagt tttaaaatgt agatatatta atatctggat gcattttctg 2040
tgactgggtt ttatatgcct tatggagtat atactcacat gtagctaaat agactcagga 2100
ctgcacattc cttgtgtagg ttgtgtgtgt gtgggtgttt tatgcataaa taaagtttta 2160
catgtggtg 2169

<210> 900

<211> 2010

<212> DNA

<213> Homo sapiens

<400> 900

aagagaagtg agaggacatc tgaagagaag gaagcctgag gaatgtagct gcagtaaaca	60
aagctattac aataaagaga aaggtgtaaa aaagcaagag aaattaaaga gccatcttca	120
cccattcaag gaggctgctc aggaagtaga tagcaaactg caacttttca aggagaacaa	180
ccgtaggagg aagaaggaga ggaaggagaa gagacggcag aggaaggggg aagagtgcag	240
cctgcctggc ctcacttgct tcacgcatga caacaaccac tggcagacag ccccgttctg	300
gaaccctcac aaatacagtg cacacggtgg aacgaggcat tttgaatcag ctacacgtac	360
aactaatgga gctcagaagc tgtcaaggat ataagcagtg caaccaaga cctaagaatc	420
ttgatgttgg aaataaagat ggaggaagct atgacctaca cagaggacag ttatgggatg	480
gatgggaagg ttaatcagcc ccgtctcact gcagacatca actggcaagg cctagaggag	540
ctacacagtg tgaatgaaaa catctatgag tacagacaaa actacagact tagtctggtg	600
gactggacta attacttgaa ggatttagat agagtatttg cactgctgaa gagtcactat	660
gagcaaaata aaacaaataa gactcaaact gctcaaagtg acgggttctt ggttgtctct	720
gctgagcacg ctgtgtcaat ggagatggcc tctgctgact cagatgaaga cccaaggcat	780
aaggttggga aaacacctca tttagacctg ccagctgacc ttcaaaccct gcatttgaac	840
cgaccaacat taagtcaga gagtaaactt gaatggaata acgacattcc agaagttaat	900
catttgaatt ctgaacactg gagaaaaacc gaaaaatgga cggggcatga agagactaat	960
catctggaaa ccgatttcag tggcgatggc atgacagagc tagagctcgg gccagcccc	1020
aggctgcagc ccattcacag gcacccgaaa gaacttcccc agtatggtgg tcctggaaag	1080
gacatttttg aagatcaact atatcttcct gtgcattccg atggaatttc agttcatcag	1140
atgttcacca tggccaccgc agaacaccga agtaattcca gcatagcggg gaagatgttg	1200
accaaggtgg agaagaatca cgaaggag aagtcacagc acctagaagg cagcacctcc	1260
tcttcactct cctctgatta gatgaaactg ttaccttacc ctaaacacag tattttcttt	1320
taactttttt atttgtaaac taataaaggt aatcacagcc accaacattc caagctaccc	1380
tgggtacctt tgtgcagtag aagctagtga gcatgtgagc aagcggtgtg cacacggaga	1440
ctcatcgtaa taatttacta tctgccaaga gtagaaagaa aggctgggga tatttgggtt	1500

ggcttggttt tgattttttg cttgtttgtt tgttttgtac taaaacagta ttatcttttg 1560
 aatatcgtag ggacataagt atatacatgt tatccaatca agatggctag aatgggtgcct 1620
 ttctgagtgt ctaaaacttg acaccctgg taaatctttc aacacacttc cactgcctgc 1680
 gtaatgaagt tttgattcat ttttaaccac tgggaattttt caatgccgtc attttcagtt 1740
 agatgatttt gcactttgag attaaaatgc catgtctatt tgattagtct tattttttta 1800
 tttttacagg cttatcagtc tcaactgttg ctgtcattgt gacaaagtca aataaacccc 1860
 caaggacgac acacagtatg gatcacatat tgtttgacat taagcttttg ccagaaaatg 1920
 ttgcatgtgt tttacctcga cttgctaaaa tcgattagca gaaaggcatg gctaataatg 1980
 ttggtggtga aaataaataa ataagtaaac 2010

<210> 901

<211> 3087

<212> DNA

<213> Homo sapiens

<400> 901

tgtctaccgc aaccctctgt gctatgggct ctcaacttgt ctgggggaag gagcagtga 60
 gaggccactg gatgttgact ggactctggc gactgggccc ctgttgccct cagctgaccc 120
 accctgctct ctggccccag ctctagcaa gggccagact ctggatggca ctttcttgcg 180
 gggggtgcc a gctgaggggt ccagtaaaga ctctcaggg agcttctccc catgccagcc 240
 cttcctggag aatatcaga ccattccacag cacgggcttc ctggcctcca ggtacacagg 300
 tccttacct aggaactcca agcaagcaat gtctgagggg ccctcaagtc cttggacca 360
 gctggcccag cccctggggc caccctgtca ggacaccggg cccaccact acccaccacc 420
 ccaccacca ccacccacc ctccacaggc cctgccttgc cctccagcct gtcgccacc 480
 agagaagcag ggcagctaca gccagcact cccactgcag cctctggggg gccacaagg 540
 gaccgggtac caggctggtg ggctgggcag cccctacctg aggcagcagg cagcccaggc 600
 accttacatt cccccactgg ggctggacgc ttacccttac ccctctgccc ctctcccagc 660
 accctctcca ggcctcaagc tggagccgcc tctcactcca cggtgcccat tggactttgc 720

ccccagaca ctgagttttc cttatgcccc ggatgacctc tctctctatg gagcatcccc 780
tgggcttgga gggacaccac cttcccagaa caatgtgagg gctgtgccac agcccgggtgc 840
cttccagagg gcatgccagc ctttgccagc gagccagccc tgctcagagc ctgtgaggcc 900
tgcacaggaa gccgaagaga agacctggct gcccagctgc aggaaagaga agctccagcc 960
ccggctcagt gagcactctg ggccgccccat cgtcatccga gacagtccag ttccctgtac 1020
ccccccagca ctgccccct gtgcccggga gtgccagtct cttccacaga aggaggacgc 1080
aaggccaccc agctctccac caatgcctgt cattgacaat gtcttcagcc tggcccccta 1140
ccgtgactat ctggatgtgc cggcacccga ggccacaact gagcctgact ctgccacagc 1200
tgagcctgac tcagccccag ccaccagtga aggtcaggac aaaggctgca gggggaccct 1260
gcctgcccag gagggcccct cagggagtaa acccctaagg ggctcactta aggaggaggt 1320
agccctggat ttgagtgtga ggaagccac agcagaggcc tcccctgtca aggcttcccc 1380
ttctgtggag catgccaagc ctactgcagc catggatgtg ccagatgtgg gcaacatggt 1440
gtcagatctg ccaggcctga aaaagataga cacagaagca ccaggcttgc ctgggggtgcc 1500
agtgaccaca gatgccatgc caaggaccaa cttccacagc tctgtggcct tcatgttccg 1560
aaagttaag atcctccgtc cggcaccttt gcctgcagcc gtggtcccgt ccacgcccac 1620
ctcagtcct gcteccacac agcctgcacc cccccaca tctggggcca ttggactgcg 1680
gattctcgt caacagccct tgtctgtgac ctgcttcagc ctggcactgc ccagccctcc 1740
agccgtagct gtggcctccc ctgcccctgc tccagctcca tcccctgtc cggctcgagc 1800
tcaggctcca gcttcagccc gggatccagc tccagctcca gctccagttg caggccctgc 1860
tccagcatct acttcagccc caggggactc cctggagcag cattttacag gactacatgc 1920
gtccctgtgt gatgctatct ctggctccgt cgcccactct cctccagaga agcttcgcga 1980
gtggctagag acggctgggc cctggggcca ggctgcgtgg caggactgcc aggggtgtgca 2040
ggggctgctg gccaagctgc tgtctcagct gcagcgcttc gatcgaccc accggtgccc 2100
cttccccat gtggtgcgag ctggcgccat cttcgtgccc attcacctgg tgaaggagcg 2160
gctcttccct cggtgccac ccgcttctgt ggacatgtg ctgcaggagc atcgtgtgga 2220
gctgcggccc accacgtgt cggaggagcg ggcactgcgg gagctcgccc tgccaggctg 2280
cacctcacgc atgtgaagt tactggcgct gcgccagctg ccggacattt accccgacct 2340
tctcggcctg cagtggcgcg actgtgtacg ccgccagctg ggtgagcatg gggcagcccc 2400
agtggccacc ggagctgtgt gagcaagtga caggtgtgtg tgctgtgtga gtgcgtcaca 2460

gctggggctg agtgattcca aggactcctg cccgggtagg gggctttagg atgagctcta 2520
ggtacccccca ccccttgacc ctccagacaa tcagttagca ccttcatagc ctcttttgta 2580
ggctttctgaa catgccagct gctctgtccc catggaaact cctcggcctc ccctgggtgct 2640
gcaccttctt ggattccctc ctctctgtcc tgtgccttct ccatctttgg tgcagtgttt 2700
ccggcactct ggtaggccc tgttttctag ctgagataat ttccctgac tccagcctag 2760
catccccctt gtgagctcta gccctaaata acccactgca tgctgggcct cagccccctg 2820
gtctctctcc cactgaac tcacccaaa tcacactccc gagccttccc ctgagctcac 2880
ttcccacaac cagtctttt ccatgtcagt gaagggcacc ccctttcaca aagctcctca 2940
tgctctagac ctggtgaggg ccacagctgc ctttttgaac gtgtagtttt gcagtcctcc 3000
ccggcccttg catacacaga agtgtgcgca taagtcgcat tgttttgtgg ttgcttttc 3060
ctctactaaa tgatgtgcct gctgttc 3087

<210> 902

<211> 2681

<212> DNA

<213> Homo sapiens

<400> 902

attactgttt tccctgttgg acatatgagg aagtcgaagt atatagaggg aaagcaaaac 60
aaaatttggt tggacaaaac agaaattttt ccaatggcca ttagttagt gaaaaaagc 120
agcagctgga gttggattct attgtagaag aaaccataac aggagattat gccttaatca 180
taaattggcca cagtttggct catgccctag aaagtgatgt caagaatgat ctctagaac 240
ttgcttgcat gtgtaagact gtaatttgct gcagggtcac tccactccag aaagcccaag 300
tggttagagct ggtgaagaag tacagaaatg ctgttacttt ggccattggg gatggagcca 360
atgatgtcag catgattaaa agtgcacaca ttggtgttgg catcagcggc caggaaggat 420
tgcaagcagt ctagccagc gactattcat ttgcacagtt tagatatctc caaaggcttc 480
tccttggtca tggaagggtg tcttatttcc gaatttgcaa attcttatgc tatttcttct 540
ataagaattt tgcatttaca cttgtgcatt tctggttgg tttcttctgt ggtttctcag 600

cccagactgt ttatgaccat tggttcatca ccctttttaa cattgtttac acatcactgc 660
ctgttttagc catggggatt tttgaccagg atgtgagtga ccagaacagc gtggactgtc 720
cccagctcta caaaccagga cagctgaatc tgctttttaa caagcgtaaa tttttcattt 780
gcgtgttgca tggaaatctac acctcattag tccttttctt catcccctat ggggcctttt 840
acaacgtggc tggagaagat gggcaacata ttgctgacta ccagtccttt gcagttacca 900
tggccacatc tttggtcatt gtggtcagtg tgcagatagc cttggatacc agttactgga 960
ctttcattaa tcacgtcttc atctggggga gcattgccat ttatttctcc attttattta 1020
caatgcacag taatggcatc tttggcatct tcccaaacca gtttccattt gttggtaatg 1080
cacgacattc cctgaccag aagtgcattt ggcttgtaat tctcttaaca acagtggctt 1140
cagttatgcc agtgggtggca ttcagatttt tgaagggtga tttataacca accctgagtg 1200
atcagatccg ccggtggcag aaggctcaaa agaaggcaag gcctccaagt agccgaaggc 1260
ctcggacccg caggtcaagc tcaagaaggc ctggatatgc ttttgctcac caagaaggct 1320
atggagagct tatcacatct ggaaaaaata tgcgagctaa aaatccacc ccaacatcag 1380
ggctggaaaa gacacattat aatagcacta gctggattga aaatttatgt aagaaaacca 1440
cagacaccgt gagcagcttt agccaggata aaacagtga actgtgagtc aatatgaatt 1500
taaaccacgt agttatcttt tcaattcagg tggagctgaa attctgctgg ctccagagtt 1560
tgagatttga ggcaagaggt ggggcaggca gattgcctca cttacttaaa atctgcggca 1620
gacaactgcc agtggccatc aaacaggagt gtgcgctatg gaaaaccagg ccagagggtc 1680
actgtctggt ttgtgatttg gtggacaaaa cactcgctgt tacaagtaca gatttttttt 1740
ttttttaaat caacctagat accaattgac ctgaacttta gaatcttatt tatggagaaa 1800
aacttgtaaa gctgcatatt cactgaatgg atcctcaggc ggataaaagg gtgcatttta 1860
aaggtatata tccaagctga aaagcatgcc tattgacaga taaacatgta tctgtaagat 1920
cagcctttcc caaggtatac ttttaaaatt taaagcgtgt actgtgttgc tttcagactg 1980
agttgcatgt cactcttttag tcttgatata tacctgtctg ttcagccagg acaacaaatg 2040
gcttccaagc ctgaagaata caaaagtgtg cttgtgtttc tcatttttat accagtctag 2100
ggacaaagga gactgaacat ctttgcagca ggataggctg gtaatttgat caaatttatt 2160
caaaaagctc tcagtctgtg tcatgtaagg acatgcttat gaaatgtgag agaggctcgc 2220
cactaagtat tctaaatact tttcaatggc ttttctaaca acctcagtag taatttgccg 2280
agcatcatcc agaccattaa tagaatcagc aaagcactgg aattccacac tttaatgata 2340

atattccaca tagtctatgg gcaaataattt tcaacatttc caatttttaa agcttcagaa 2400
 ttgaagccaa acaaattaat aaataattgt ttttaattact atttaaaaac tcagggttag 2460
 attgttttaa attagttgct tttgatactc agctgtcatg tttataattc aaacatgtag 2520
 taaacatatg taggtaaggt tgtttttttg gagatgttgc agctcaaatt tcagtccaca 2580
 tatgaatcat cagtgtattt tccataaagt gattcgggca tatttgtgtg aaaacctcag 2640
 ttctgtcact tcttacctct ataaacttgg acgataatgt g 2681

<210> 903

<211> 2243

<212> DNA

<213> Homo sapiens

<400> 903

ctgacacttt tagaaccaag tttccagaaa caacgttagc tcctaaaaca caacggacac 60
 gtcgtccccg tcccagaccc aaaactacat caagtcctga agtacctcag aacaaatcgg 120
 tttctgttac aggctttgaa cctgttgttc atagtactga tgctccagga acaacatttg 180
 ctctgactga actgcaaact cttattttga aaccagtgc atcaccaagc ctagaaatga 240
 cagaaagtct acctgtttct gatgttctgg aatcggttac acttagtact gagtcaccaa 300
 aggagacat agcaccagcc aaaacagact atgtatatcc cactgccaaa gcaccactct 360
 ggccagagga gccaaagact gaagttgtgg aatctattac atatgtatct gaaccacctg 420
 agaccacact agaaacgtcg cctctgcctt ctcaatctat aaccctaccc agcccagatg 480
 agcctcagac tgaacctgct cccaagcaga caccacgtgc tcctcctaag caaaaacat 540
 caccacgccc aagaatccca caaacacaac cagttcctaa ggtgccccag cgtgttactg 600
 caaaacaaaa aacgtcacca agtcacagaag tgcatacac cacacctgct caaaagatg 660
 tgctccttc tcataaacca taccctgagg tctctcagag cgaacctgct cctctagaga 720
 cagaggcat cccttttata cccatgattt cccaagtcc tagtcaagag gaactacaga 780
 ccactctgga agaaacagac caatccaccc aagaaccttt cacaactaag attccacgaa 840
 caactgaact agcaaagaca actcaggcgc cacacagatt ttatactact gtgaggccca 900

gaacatctga caagccacac atcagacctg ttctgaatag gacaactaca agacctacta 960
ggcccaaacc cagtgggatg cccagtggga atggagtggg aacaggggtc aagcaagcac 1020
ccaggccatc aggtgctgat agaaatgtat cagtggactc taccacccc actaaaaagc 1080
cagggactcg ccgcccaccc ttgccacca gacctacaca cccacgaaga aaacctttac 1140
caccaaataa tgtcactgga aagccaggaa gtgcaggaat catttcatca ggcccaataa 1200
ctacaccacc cctgaggta acacccaggc ctactggaac tcccttgag agaatagaga 1260
cagatataaa gcaaccaaca gttcctgcct ctggagaaga actggaaaat ataactgact 1320
ttagtcaag cccaacaaga gaaactgac ctcttggga gccaaagattc aaaggacctc 1380
atgtgcgata catccaaaag cctgacaaca gtccctgctc cattactgac tctgtcaaac 1440
ggttcccaa agaggaggcc acagagggga atgccaccag cccaccacag aaccaccca 1500
ccaacctcac tgtggtcacc gtggaagggt gccctcatt tgtcatcttg gactgggaaa 1560
agccactaaa tgacactgtc actgaatatg aagtatatc cagagaaaat gggtcattca 1620
gtgggaagaa caagtccatt caaatgacaa atcagacatt ttccacagta gaaaatctga 1680
aaccaaacac gagttatgaa ttccaggta aacccaaaaa cccacttggt gaaggcccg 1740
tcagcaacac agtggcattc agtactgaat cagcggaccc aagagtgagt gagccagttt 1800
ctgcaggaag agatgccatc tggactgaaa gaccctttaa ttcagactct tactcagagt 1860
gtaagggaac acaatatgtc aaaaggacat ggtataaaaa atttgtagga gtgcagctgt 1920
gcaactctct cagatacaag atttacttga gcgactccct cacaggaaaa ttttataaca 1980
taggtgatca gaggggcat ggagaagatc actgccagtt tgtggattca tttttagatg 2040
gacgcactgg gcagcaactc acttctgacc agttaccaat caaagaagg tatttcagag 2100
cagttcgcca ggaacctgtc caatttggag aaataggtgg tcacaccaa atcaattatg 2160
ttcagtggta tgaatgtggg actacaattc ctggaaaatg gtagatgctg cacaaagtta 2220
ccttctgttt catcattgca aac 2243

<210> 904

<211> 1963

<212> DNA

<213> Homo sapiens

<400> 904

acttccgctg gccgctggct cgctggccgc tcctggaggc ggcgggcggga gcgcaggggg 60
cgcgcgggccc ggggactcgc attccccggt tccccctcca cccacgcgg cctggaccat 120
ggacgccaga tgggtgggcag tgggtggtgct ggctgcgttc ccctccctag gggcaggtgg 180
ggagactccc gaagcccctc cggagtcagtg gacccagcta tggttcttcc gatttgtggt 240
gaatgctgct ggctatgcca gctttatggt acctggctac ctcttggtga aagcttgtgt 300
gtttggcaat gagcccaagg cctctgatga gggtcccttg gcgccccgaa cagaggcggc 360
agagaccacc ccgatgtggc aggccctgaa gctgctcttc tgtgccacag ggctccaggt 420
gtcttatctg acttggggtg tgctgcagga aagagtgatg accgcagct atggggccac 480
agccacatca ccgggtgagc gctttacgga ctgcagttc ctggtgctaa tgaaccgagt 540
gctggcactg attgtggctg gcctctcctg tgttctctgc aagcagcccc ggcatggggc 600
acccatgtac cgggtactcct ttgccagcct gtccaatgtg cttagcagct ggtgccata 660
cgaagctctt aagttcgtca gcttccccac ccagggtgctg gccaaggcct ctaaggtgat 720
ccctgtcatg ctgatgggaa agcttgtgtc tcggcgcagc tacgaacct gggagtacct 780
gacagccaca ctcatctcca ttggggctcag catgtttctg ctatccagcg gaccagagcc 840
ccgcagctcc ccagccacca cactctcagg cctcatctta ctggcaggtt atattgcttt 900
tgacagcttc acctcaaact ggcaggatgc cctgtttgcc tataagatgt catcggtgca 960
gatgatgttt ggggtcaatt tcttctcctg cctcttcaca gtgggctcac tgctagaaca 1020
ggggggcccta ctggagggaa cccgcttcat ggggcgacac agtgagtttg ctgccatgc 1080
cctgctactc tccatctgct ccgcagtgg ccagctcttc atcttttaca ccattgggca 1140
gtttggggct gccgtcttca ccatcatcat gaccctccgc caggcctttg ccctccttct 1200
ttcctgcctt ctctatggcc aactgtcac tgtggtggga gggctggggg tggctgtggt 1260
ctttgtgcc ctctgtcga gagtctacgc gcggggccgt ctaaagcaac ggggaaagaa 1320
ggctgtgcct gttgagtctc ctgtgcagaa ggtttgaggg tggaaagggc ctgaggggtg 1380
aagtgaata ggaccctccc accatccct tctgctgtaa cctctgaggg agctggctga 1440
aagggcaaaa tgcaggtgtt ttctcagtat cacagaccag ctctgcagca ggggattggg 1500
gagcccagga ggcagccttc cttttgcct taagtcaccc atcttccagt aagcagttta 1560
ttctgagccc cgggggtaga cagtcctcag tgaggggttt tggggagttt ggggtcaaga 1620

gagcataggt aggttccaca gttactcttc ccacaagttc ccttaagtct tgccctagct 1680
gtgctctgcc accttccaga ctactcccc tctgcaaata cctgcatttc ttaccctggc 1740
gagaaaagca caagcgggtg aggcctcaat gctgctttcc caggagggtg aagatgggtgc 1800
tgtgctgagg aaaggggatg cagagccctg ccagcaccg ccacctccta tgctcctgga 1860
tccctaggct ctgttccatg agcctgttgc aggttttggc actttagaaa tgtaactttt 1920
tgctcttata attttatttt attaaattaa attactgcag tgg 1963

<210> 905

<211> 2392

<212> DNA

<213> Homo sapiens

<400> 905

agatcgggtc cggcgctcca gaacagaacg atccctgagg ctcccttgct cgaactgtgg 60
gacttaccct actatgggtc gagcctaccc tatttcatta tactcaagta acgccccaga 120
aattccagag aatctcacac aaagagggtg agtcttgccg tggcgccttc aggggaatgt 180
catcccgggc tagaagagct gcaaaaggct gtcaggcttc tcagaacttt gcttctccag 240
cagaataatc ctgcggaaga ctgagcagtt cttgtgagtg taaaaccatg gcccatgcat 300
tggtgacgtt cagggatgtg gctatagact tctctcagaa ggaatgggag tgcctggaca 360
ctaccagag gaaattgtac agagatgtga tgttgagaa ttataataac ttggtctcac 420
tggtgatattc tggctcaaag ccagatgtga ttacctact ggagcaaggg aaagagccct 480
gcgtgggtggc gagggatgtg acaggaagac agtgccccgg tttgttatcc aggcataaga 540
ccaagaaatt atcttcagaa aaggacattc atgaaatcag tttatccaaa gagagtataa 600
tagaaaaaag taaaactctt cgtctgaaag gatccatttt tagaaatgag tggcagaaca 660
aaagtgagtt tgagggtcaa cagggactta aagaaagatc tatcagtcaa aagaaaatcg 720
tctctaaaaa aatgtcaact gatagaaaac gtccctcttt tactctgaat cagagaattc 780
acaatagtga gaaaagctgt gactcacact tgggtcaaca tgggaaaata gattctgatg 840
tgaaacatga ttgtaaagaa tgtgggagta cttttaataa tgtctatcag cttactctcc 900

atcagaaaat tcatactggt gaaaaatcct gtaaagtga gaaatgtggg aaagttttta 960
 gtcatagcta tcaacttact ctgcatcaga gatttcatac tggtgagaaa ccctatgaat 1020
 gtcaagaatg tgggaagacc ttctactctt acccacaact taatcgacat cagaaaattc 1080
 aacttggtaa aaaaccctat atgtgtaaga aatgtgataa gggttttttt tagtagatta 1140
 gaacttactc aacataaaag aattcatact ggtaagaaat cttatgaatg taaagaatgt 1200
 ggaaaagttt ttcaacttat ttctactctt aaagaacatg agagaattca tacaggtaag 1260
 aaaccctatg aatgtaagga gtgtgggaaa gcttttagtg tatgcggaca acttaccctg 1320
 catcagaaaa ttcatactgg tgtaaaaccc tacgaatgta aggaatgtgg aaagacctt 1380
 agacttagtt ttaccttac tgaacacaga agaactcatg caggtaagaa accttatgaa 1440
 tgtaaggagt gtggggaatc atttaatgtg cgtggacagc ttaatcggca taaaacaatc 1500
 catactggta taaaacctt tgcattgtaag gtgtgtgaga aggcttttag ttatagtgg 1560
 gacctcagag tacattctag aattcatact ggagagaaac catatgaatg taaggaatgc 1620
 gggaaagcct ttatgcttcg ttcagtcctt actgaacatc agagacttca tactggtgtg 1680
 aagccctacg aatgtaagga atgtgggaag accttcgag ttcgttctca aattagtcta 1740
 cataagaaaa ttcatactga tgtgaagccc tacaatgtg tacgatgtgg gaagacctt 1800
 agatttggtt tctaccttac tgaacaccag agaattcaca ctggtgaaaa gccctataaa 1860
 tgtaaagaat gtggaaagc ctttattcgt agagggaatc ttaaagaaca tctgaaaatt 1920
 cattctggtt taaaacctta tgactgtaaa gaatgtggga agtccttttag tcggcgtggg 1980
 cagttcactg aacatcagaa aattcatac ggtgtaaaac catacaaatg taaagaatgt 2040
 gggaaggcct ttagtcgtag tgtagacctt agaatacatc aaagaattca tactggtgag 2100
 aaaccctatg agtgtaaaca atgtgggaag gccttttagac ttaattcaca cttactgaa 2160
 catcagagaa ttcacactgg tgagaaaccc tatgagtga aggtatgtag aaaggcctt 2220
 agacaatatt cacatcttta tcaacatcag aaaactcata atgtaattta atataagaaa 2280
 aggtttccat gtcattgctt atttatagaa tatcaaaata ttatggcca gaagtctgt 2340
 caatgtgttg atgtttttt acacatatta acttaataaa tgtatgagtc tt 2392

<210> 906

<211> 1867

<212> DNA

<213> Homo sapiens

<400> 906

```
cagctgcagc ctcttgagtc accagcgtag tcacttgggg cccaagccct ttggctgtga 60
tgtgtgtgga aaggagtttg cccggggatc cgacctgggtg aagcacctgc ggggtgcacac 120
gggtgagaag ccctacctct gccagagtg cggcaaaggt ttcgcggaca gctccgcccg 180
agtcaaacac ctccgcaccc acagtggcga gaggcccat gcctgcccgg aatgcgaccg 240
taccttcagc ctacgtcca ccttcttcg ccaccgcctc actcacatgg agccccagga 300
cttcagcttc ccaggtatc ccctaccgc tctgatcccc agcccacccc cacctcctct 360
gggcaccagc cccccgctga cacctcgaag tccctcacac tcgggtgagc cttttggcct 420
gcctggcttg gagccagagc ctggggggccc acaggctggg gagccacccc caccactggc 480
gggcgacaag ccccaacaag gccctgagtg tggcaagggc ttccgccgaa gctctgacct 540
ggtgaaacac catcgtgtgc acacagggga gaaaccctac ctctgtcctg aatgcggcaa 600
gggttttgct gacagctcag cccgagtcaa gcacctccgc acccaccgtg gtgaacgggc 660
ccggccacca ccaccatcca ctctgctgcg gccacataac ccacctggcc cagtacccat 720
ggccccctga ccccgagttc gggcccagcc ttctggaccc agccagcccc acgtgtgtgg 780
cttctgtggg aaggagtcc cccggagctc agatctggtc aaacacaggc gtacacacac 840
ggggggagaag ccatacaagt gtgcagagtg tggcaagggt tttggtgaca gttctgcccc 900
catcaagcac cagcgtgggc acctggctct gacgcccttt gggatagggg atggtagggc 960
aaggccccctc aagcaggagg cagcaacagg actggaatga cgcggtccag ggagggtgga 1020
ggcccaggag accaaaggga ggggctctgc cgcttagcag agaagaaagg gcctgggagg 1080
tggtgggagg gagaaggaag ggaagaaagg ggaggaagaa tagatagaaa tagggattgg 1140
agacagtaac cttgaagctc aggaaactgt cctggctggg ctgagtcagg accttgccag 1200
gacgggctgt acccctggct tctagaagac tgcctagcac acagtaggca ttcaatactt 1260
gttgaataaa taaactggct ttacctaag gactcaaccc taaattcctg ctgcctcatc 1320
tgttaagaac tgacactttc cccttgctgg gcaggtagta cacacctgta atcccagcag 1380
tttgggaggc tgaggtggga gaatcacttg agcccaaaag tttgaggctg cagtgagctg 1440
attgcaccac tgatgcctcc caaccttgct ctgggagacc aatgcctgaa ccagggtttg 1500
```

tttaccttct gagctgcaga gatggggctt ctggaattta aggtaacagg atgaggcagg 1560
 ggtatcttga tcatccgat ggggcaaata ctgctgtgtg gcatggtggt acccaccct 1620
 atggaggggc actcttggac agagcccaga ctttgtgcc ctggaggag ccaaccacc 1680
 ctgacacgga gacactggca gaatagacca gagacagaag gtgctctcat ggtatccagc 1740
 ctggatgcca agcccaagtc ctggtggata gcagaggcca gctgtttggg aaaagggcag 1800
 gatgctctga ggcctggcag ccacatttcc atgtgtcttt ttaccaataa acggcttctc 1860
 ttctgag 1867

<210> 907

<211> 1946

<212> DNA

<213> Homo sapiens

<400> 907

agacgctgca gcgatgcctc gcccacggcg ggtcagtcag ctcttgatc tatgcctttg 60
 gtgcttcatg aagaatattt ccagatatct cacagacatt aagcctttgc ctcccaacat 120
 aaaagacaga ctgattaaaa taatgagtat gcagggacag ataacagatt caaatataag 180
 tgagatttta catcctgaag tccaaactct agatctacgg agctgcgata tatcagatgc 240
 tgctctcctg cacctgtcta actgtagaaa actgaagaaa ttaaatttaa atgcttcaaa 300
 agggaaccga gtttctgtaa cttcagaagg aataaaagct gtggcttcat cttgttcata 360
 cctacacgaa gcttctttga aaagatgctg caatctcact gacgaaggag tcgttgctct 420
 tgactcaat tgccagctgc taaagatcat cgatttaggt ggctgcttaa gtattactga 480
 tgtgtcctta catgcattag gaaaaaactg cccatttttg cagtgtgtcg acttttcagc 540
 tactcaggta tctgacagtg gtgtgattgc acttgtagt ggaccttggt cgaagaaatt 600
 agaggagatt catatgggac attgtgtaaa tctgactgat ggggctgtcg aagctgtcct 660
 tacttactgt cctcaaatac gtatattact ctccatgga tgccccttga taacagatca 720
 ttcccagaaa gtgttggagc aattagtagg cccaacaaa ctaaagcaag tgacatggac 780
 tgtttattga tgcttttttg aagatgatca atgctaggaa agcttatcaa aactactttc 840

ccaggaaacc atctatagag atttgcattc tacttaatgt taacactatt tttaattatt 900
ttattgtctt aagttataac tctcagagaa ttagctaagt ctgggtatat acatgggttg 960
tgctttactc ttaaaccatct ttaaagtgt attattctat atctgttgga tgagtcatta 1020
tttttgaaat gataatccta gcatgaactc tgatctatgg tgttggattc tgtttcttaa 1080
ataactttaa aattaactgt tttcccttga gatttccttc tcctatgtag gtatttgagc 1140
tattgttcta agtttacctg taagtataaa ccttggggaga atctaagtaa acatatttct 1200
aaaagcatag ttaccttctt attttctggc tcttaccttc ttggagtatt taagtgccca 1260
tttgccaaaa gcagacctga acatcaagcc tgtaattct tcaaagaatt taggtatttg 1320
tttcaccgaa atgaagtac ttattagcca ttcagcgtat tagtattaca gaggtcttg 1380
cccagccaca tccattcatt gatTTTTatg gctactcttc ccagttacat tttatgcatc 1440
tgtaagcttt ccttccttag caaaattgca ttcaaaaatg tgtaaaaatg agtaaataca 1500
gaatatcact acagagactt gtatcctcag gtttattgat ttcacattgt gaaataaaca 1560
gcaaaggtct tagttttcaa gtgaaaactt tttggtaatc acaaattac ctgacacata 1620
ccacgttaa accaaccctt aaatttagca tattcatttt gccatgagcc agtcttgaga 1680
ttttcttaaa agatttctta ttttgctct gatgtagtga aaaacggggg aagtatgcta 1740
actttcttgt atatgttggg gggtacttat tcaactccat ttcttgcct tacaagattt 1800
ataaatgtgg tatgtttata gtgtggatat atatgttgcc actgcaaagg tgggtcatat 1860
gtatatatgt gcaaaatggg taaggcctgt tctaactatg aaatttttct aaagacaaat 1920
tcaataaaat ttaatactga atattt 1946

<210> 908

<211> 3232

<212> DNA

<213> Homo sapiens

<400> 908

tttcttttga tttccattgt ctgggtaagt tattgttagg gttattttta atgtgccttc 60
cagccagaaa aatcagctgt ctaaagaagc attgcaattg taatggggac tcttacctct 120

tagaatgcaa gattttccct cctccctccc tcttctccat ctctttccct catgatttga 180
gaactgtaat aatcctccac tgggtggcatt acctacctag aaaacctgct gattcttagc 240
atggaacttt gcttcagttt gcaggacaaa gtctgcttcc ttccggtctt catttacttt 300
ttatacaagg gatgcagtca gctctccatg tataagatac ctagatgatg gatacatatt 360
tcataaatga aatttatgtc attaatgaat atcccccttg ccacaaccag ctcaggcttt 420
caaaattcga gaatggtcac gccacacagc attctaattc agatggatta attctgttgt 480
tcaaaacatt ctcatacctg ccttttatatt gaaaacaaat tctagataca actgggggtta 540
ttctggaaaa gcacattctc accttttttt tttttttgag acggagtctc gcactgtcgc 600
agggctggag tgcattgtcg tgatctctgc tctactgcaac ctctgcctcc tgggttcaag 660
cgattctcct gcctcagtct cctgagtagc tgggattaca ggtgcccacc accacgccc 720
gctaattttt gtatttttag tagagatgag gtttcacat gttggccagg ctggtctcta 780
actcctgacc tcgtgattca cccgccttgg tctcccaaag tagtgggatt acaggcgtga 840
gccgctgcgc ctggcccat ctcatcttat tcaaattact ggcatatggg caagagagac 900
aatgacatgg acagaagctt ttctgccttt ctctgcacac acatacagt aaggaaccac 960
aggcagattt ttgatcagt ttggtgaata cattgctcgt tgtcactgtt ccaaccacat 1020
tggtaaaaaa aatagttacc ttttgtcctt tggatgtcat gtctaaactt tggaaaatat 1080
aagtcattgc ccttttagag aatgtttgtg tagtccaaag attgtgagct ccatatagta 1140
tgaaaatcaa gtacttttgc atgagcaata gcagtttcaa agtgaaatat tataacttaa 1200
tctttttcaa gtagatcaaa aattcttaac tgattaataa aatattttat caatatatca 1260
tccccctttc agagagaagt cccagaaga gacagcacac ttagcaattg ccctcattat 1320
taaaggccta ggtgagtggc ataaagggcc atatgcgatt atgtttcaag gtaaacatta 1380
cctaaccttg tgtgggttaa aaacagtga gtgtccttgt atcctgataa aatttttttt 1440
taaataacat ggtgggttga catttttgca tctgctataa gttttctcac atgtcgttct 1500
tcctggtgag agcgggctgc atcattctgg cacttaattt ggggtgttga ttttgctata 1560
gagttctttg cagtacagca tagcctcttc ttggccttgg gaacagtga ctcttctttt 1620
gatggtgtgg attgcatgca tatctggaga gaggagggt caggactgtg ttcactttat 1680
ttggtcagat gtattttatt tgaaaacat ttgagcccaa aatacaagt tacccttccc 1740
acttctggct caagcaccg tgagccgact agacgtaata ttaaaactta ctgatgctgg 1800
gcgcggtggc tcatgcctat aatcccagca ctttgggagg ccaaggcagg cagatcacct 1860

gaggtcagga gttggagacc agactggcca acatgacgaa atgctctcgc tactaaaaat 1920
agaaaaatta gccaggcgtg gtggcacacc cctgtaatcc tagctactcg ggaggctgag 1980
acaggaaaaat tgcataaacc tgggaggcag aggttgcagt gagcagagat tacaccactg 2040
caacgagact cgggccccaga cgagatctgc ctgggcgaca cagtgaact ctgtctcaaa 2100
ataaataaat aagtaaataa aacctcctga gctaccctgg cttataagga ttcagattac 2160
tttaggaaat taggcattag cactaggagg ggggaagatg gctggcaaaa cttctagcta 2220
gcaacctatg tctagcacat gggtaactaa ccatagcgag atcctgaaca catatcctct 2280
aggtgcaggt ggagggaacg atgtccaata cctgaagcag aatctcacat ggacggaacg 2340
tctgtatttc cctctcctgc acgaatcact catcattctt ggagggttc tctgtatttc 2400
tccttttctt ctctccctc ccctgccttt tgtcttttct aaagagtctg aactccgatt 2460
tccatgctct cctgctacat taataagcaa aacctgcttg tgtgtacggg tctttactgg 2520
aaacatgact tttgttttct gtattgggtt tactgtcatc cagttttcta gtttaatatc 2580
tagcaaaaact aaatctgaat gtactcgctt tttccgttaa gtatgccaag cacctcggtt 2640
gaaaggcttg actcaaacca gaagtcttgc tggaaattcg ctctgaacac ttgaaaaaca 2700
gaaaccctga gccgcaacaa acatgcctct gtgtgtcggg attgcctttg tctctgcttc 2760
catgtggctt ttccttttgt agctatgctt agtgacataa tcttccctct tctagccttc 2820
tcctttcaag cctgtctgtt aattaaccat gtcagtattg gcaagcattt atcttcccc 2880
accctaacat gcaatcttct aagaattttg caaaattcta aacaaatata gagatgggtat 2940
atagaattca tatctagaaa actttgattt taatgtgagc ttatcaaatt tgttctggct 3000
tttttggcac taaggcaaaa acatgttaac cagaaataat ttattcttca tgtatgtaaa 3060
atatttgaga atgtttagcc ttttattaga attttacttg gaaaatattt atctttctac 3120
acattttaca cttatgttcc tttgcttata acccaatttc ttaacttttt tgttacttaa 3180
gcaaatatca attatgtttt attatctaataa aaagtgtgaag attcttacta tc 3232

<210> 909

<211> 1526

<212> DNA

<213> Homo sapiens

<400> 909

aaagacacaa atcgctccc ggagtggcgc ctccagtcgc ggcggagcgc ggcgttggcg	60
gcggatggag ggcgcgagcg ggcggccgcg gaggctgcac ccggcggggc gctgatgcgg	120
cgcctggacc ttcgctgcgc gacttcgggg gcgtcggccg agttgggact ccgcgatgca	180
gctcctgaag gcgctctggg cactggcagg ggccgcgctc tgctgcttcc tcgtcctagt	240
gatccacgcg cagttcctca aagaaggcca gctggccgcc ggcacctgtg agattgtgac	300
cttggaccgg gacagcagcc agcctcggag gacgatcgcc cggcagaccg cccgctgtgc	360
gtgtagaaag gggcagatcg ccggcaccac gagagcccgg cccgcctgtg tggacgcaag	420
aatcatcaag accaagcagt ggtgtgacat gcttccgtgt ctggaggggg aaggctgcga	480
cttggttaatc aaccggtcag gctggacgtg cacgcagccc ggcgggagga taaagaccac	540
cacggtctcc tgacaaacac agcccctgag gggccccggg agtggccttg gctccctgga	600
gagcccacgt ctcagccaca gttctccact cgcctcggac ttcacccgtt ctctgccgcc	660
cgcccaactcc gtttcctgt ggtccgtgaa ggacggcctc aggccttggc atcctgagct	720
tcggtctgtc cagccgacct gagggaggccg gactcagaca cataggcggg gggcggcacc	780
tggcatcagc aatacgcagt ctgtgggagc ccggccgcgc caagcccccg ccgaccgtgg	840
cgttggccct gctgtcctca gagggaggagg agggaggagg agtccggca gccacagaag	900
gctgcagccc agcccgctg agacacgacg cctgccccag gggactgtca ggcacagaag	960
cggcctcctc ccgtgcccc aactgtccga attgctttta ttttcttata ctttcagtat	1020
actccataga ccaaagagca aaatctatct gaacctggac gcaccctcac tgtcagggtc	1080
cctgggggtcg cttgtgcggg cgggagggca atggtggcag agacatgctg gtggccccgg	1140
cggagcggag agggcggccg tggaggaggc ctccaccca ggagcaccac gcgcaccctc	1200
ggaggacggg cttcggctgc gcggaggccg tggcacacct gcgggaggca gcgacggccc	1260
ccacgcagac gccgggaacg caggccgctt tattcctctg tacttagatc aacttgaccg	1320
tactaaaatc ctttctgtt ttaaccagtt aaacatgcct cttctacagc tccatttttg	1380
atagttggat aatccagtat ctgccaagag catgttgggt ctcccgtgac tgctgcctca	1440
tcgatacccc atttagctcc agaaagcaaa gaaaactcga gtaacacttg tttgaaagag	1500
atcattaaat gtattttgca aagcct	1526

<210> 910

<211> 1615

<212> DNA

<213> Homo sapiens

<400> 910

```
tttagggacc tgattttctc tctagtcctc tcatttccttt ccccttcctc acctcctccg    60
atcacagctc cggtagggctc cgcagatggg aaagggtttc cagcgcgcgc ctagcggcca    120
caaatcactt cccggggccg ccccgccagg cctcaaacct cccagagccg tcggtcggct    180
tttactttaa cgaggattca gatgggtcac accctgtcct ccaaatgcgg gcctgctccc    240
cggaccccg cccagggggct cgccccagt cccagggctcc tgggcaacc tagcactctg    300
cgagtcgggg aagtgacccc aaagttgctt ctgagtggag acttccgcac gcagaggcgt    360
ccccgcagct gccaggcttt tcaggggcag catccccgc cgtcaggag cctgtcctcg    420
gggccaccac gcgccccgcg cctcagcccc gcaggggcct caccggggcc tcagtctgca    480
agcagccggg gacagcgggc ttcttccct gcccgagcgc gccgagcgtc tcggccaacc    540
tccccgcgg agagcacagc gccccgcgc agtccccgaa cttcttcccg cgtcggctcg    600
ggctctcggg tggggacgcg gggacccctc gctcaccgat atccccatcg tcgtcgtcct    660
cctcctcctc catttgtagc aaaacattcc tgctcatctt tttcatgtct ccctcagaag    720
gcgggtccga acttggcgcg aagttggggg ctcccgggtt ccagaacggc gcggctctcc    780
caggggccgg atcggggacc gcggggcgtg tgctcgttgg gctcaggggc cgtgagccc    840
agccagcgcc ggggaaagcc gagccgaggc acccaccgac cggagcccag agccggagga    900
cgctctcgc ctgccgagcg gagcccggag actgagcatg cccagtgcgg ccgcccggc    960
tcgtgcgga atgattgaac ttccccggtt ttacgaggcg cgcagaagga agtcggcagg   1020
cgagactgca gagggagtag tgcgatactg cgcgcggggg aactagctgg agggcaaggc   1080
gggaacacgt gagtgcggga gtggactggg ttccctgagc attgatcca aacagggcag   1140
cttttcgttc caaggtcgtc tgtggacaca cactgtggct tgctttgttt taacgtctga   1200
tactggagag gagggagatg ctgctgcagc acaactgcag aaccctggaa ggcgaactcg   1260
tttgaatggc ttttaaaggc gacgtggagc taataatggg gggatcttaa attactctag   1320
```

ctccgaagtg ggaaagtgga atctgtacgg gtaggttaag attacggtgg agtcgggggtg 1380
ggaggagagg caaaactcag agaagcgccc cctactcccc ccgcgcgagc acacagggag 1440
tggtcgggaag ataatcgctg aagcgtccag cctatttgta caattgaaac tagtcctctg 1500
tgtcaaagag ggagaagaag ccgaagacca ctagagttag atgtaaactc ttctaaagca 1560
atgtggaaag ctataataag agaaaagaaa gtcgtgaaat aaaattaagg cagag 1615

<210> 911

<211> 1662

<212> DNA

<213> Homo sapiens

<400> 911

gagaattggg gtggggcgcg ccaagaggag caagcattat agaacgtggg gagcatgaga 60
aatacacgga ggtggaaacg ccggagtggc tggcgggtaa aggcagcggg cgcagatgaa 120
gcgggctggg cgtcccacgc gcagaaccgt cccggacaga agccgcaggg gctgcgctgg 180
ctggaaaaag gaacgcgagt acagcgcgcg tggcgcgggg tctgctccag gacggaatct 240
tttgggtggc ccgcatgagg ggtttgcagg accccgggcc tttgggaagt tgtctgctaa 300
actccagtag accctgagga gcagcggctc atgaatcttc ttaaacttct gtcaccagcg 360
gctgggccag ctgaaggtga ccatggcaca cgaggagag agaagccgc gagaggcgga 420
gaaatgtggg gtcgtccagg agggctcgaca aggcaaagaa cctgaagacg acccaaaagg 480
gtacctagag ttgaacttcc tctcttttta gaagaatgga tttctcgag tctgaaaaat 540
ttatggttct tctctggaag aattttatit taaagaggcg gcgatgtatt gctttagtgt 600
tggaatggt cctcacattt ctgttttagtg ctgcgctttt ggcaacacgc tctgttatta 660
ctataaataa gaacggacct ttcgattttg ctgctcagcc tgtcgatgaa gtgcctttct 720
acatcacagc ttccttaatt tctccttctc ctttgggaatt ggcttacgtg ccttccagaa 780
gtactgtggt tcagggtatt attgaaagag tgaaaatgga tttaaaccct caaatgaaag 840
gtagaaatt aacattttct gaaaaaacat acagaattac taaatcgatt tagtgaagac 900
atacttaca ccttattaac tggttcttaa cctcccaagt aaaacatcgt tggaatcctc 960

atactaagta taaatattat ggactttgtt aaacttgaaa gttaaattta tataaaatat 1020
 tttgttcata gagcccagaa caaatagtaa tatttcaaaa tgagatgacc aattattatt 1080
 attattctaa gttgttatcc agttttgtga tactgttttt tctatctggt tgtgcttctt 1140
 gaacctgggt aagtatacct ccaggggtgt gtgattttgt gccacaggtc agtggtcagt 1200
 tattttaaata aatgttttat attaaaatgt ggtgtgagta atataggaag gctttagaaa 1260
 acacttaagc tatgtagaat tatttttaaaa gccctcagtc tctcacttac cttcatattc 1320
 ccggatcagt ttcttacctc tttctcttag aggtaaatac tgtgagaagt ttaggtcggc 1380
 cgggcccagt ggctcacgcc tgtaatccca gcattttggg aggctgaggt gggcagatca 1440
 cctgaggtca ggagttcaag accagcctgg ccaacatggc aaaaccccat ctctactaaa 1500
 aatataagaa ttagccagac atggtggtat gcacctatag tcccagctac ttgggaggct 1560
 gaggcattgcg aattgcttga acccaggagg aggaggaggt tgcagtgagg tgaaattgca 1620
 ccactgcact ccagcctggg tgacagacca agactctgtc tc 1662

<210> 912

<211> 1306

<212> DNA

<213> Homo sapiens

<400> 912

aaaaagcgac cttttctgag cgcgtttgcc tgttgagtgg tagcctttcc cctcaaccag 60
 caatggagga gcagccccag atgcaagacg ccgacgagcc cgcggactcc ggaggggaag 120
 gccgggcagg cgggccaccg caggtcgccg gcgcccaggc ggcgtgcagc gaggaccgca 180
 tgaccctgct cctcaggctg agagcacaga caaaacaaca actcttagaa tataaatcaa 240
 tggttgatgc aagtgaagaa aaaactccag aacaaattat gcaagaaaag caaatcgaag 300
 ctaaaattga agacctggaa aatgaaattg aagaggtaaa agttgctttt gagataaaaa 360
 agcttgcatc agacagtgtg ctcatggata acatgaaaca cctattagag cttaaataat 420
 taataatgaa atcacagcag gaatcttggg atttagagga aaaactgctt gatattagaa 480
 agaagagatt gcaattaaaa caagcttcag aaagtaagct tttagaaata cagactgaaa 540

agaacaaaca gaagattgat ttggacagta tggaaaactc agagaggata aagatcatac 600
 gacaaaacct acagatggag ataaaaatta ctactgttat tcaacatgtg ttccagaacc 660
 ttattttggg gagtaaagtc aattgggcag aggatcctgc ccttaaggaa attgttctgc 720
 agcttgagaa gaatgttgac atgatgtaat aagaattcat ttctgacata ttttacattt 780
 ctggcaatct caactcttat ttggaatact tctgtgcatt tgtctgtcca ccgtaatttt 840
 agaaaagcat atccataacg tttacagttg tagtacagtt gtggttagtt atttgtagtg 900
 ggattgaaag taattttttt ctttttatat ttctatatatt agtttgtttt tttgttgttg 960
 ttgttttttg agatggagtc ccgctttgtt gccagactg gagggcagtg gcgcgatctc 1020
 ggctcactgc aacctctgcc tcccgggttc aagcagttct gcctcagcct cccaagtagc 1080
 tgtgactaaa ggtgcacgcc gccatgccc gctaattttt tgtatttttag tagagacggg 1140
 gtttcaccgt gttgcccagg ctgctctcag aactcctgag ctcaggcagt ccaccgcctc 1200
 ggcctaccga agtgctagga ttacagacgt aagccaccga gcctggtcta gtttgcattt 1260
 tttttctatc agttttataa gttaagaaat aaaaggaatt aatgtt 1306

<210> 913

<211> 2637

<212> DNA

<213> Homo sapiens

<400> 913

atttgttcta ttgtatccct tggctggtgt atttgtacat ctctcgggac gtgaaattga 60
 cagtgaaaag tatggcagat gagcaagaaa tcatgtgcaa attggaaagc attaaagaga 120
 tcaggatatc actccgccac ccaagctgga gttcagcagt gccatcgtgg ctactgaag 180
 ccttgaattc ctgggctcca gaagttatcc cacttcagct tccccaataa ctggactaca 240
 ggcttgtgcc accatgcctg gctaattttt cttaaatatt ttgtagagac agggctctcac 300
 tatgttacct aggggtggtct tgaactcctg ggctcaagcg atcctcccgc catggcttcc 360
 caaagtgttc tgattatagg tgtgagacac cgcactgagc cagaaacttt taatgttgat 420
 gaagaaatcc aatttatcag tattttttat ggattgtgaa ttcttgtgcc atttaggaga 480

aatgtttgcc taagtcgtat tcacaaagat tttctcctat attttcttcc agaaatttta 540
tttttaggtt tcacgttttag gtctatgata cattttcact taattttttt gtatgttgca 600
aggaacaaga ccctgcagat ggagaaggctc aaggctcggt tgaaggctga gtttgaggca 660
cttgagtcag aggaaaggca cctgaaggaa tacaagcagg agacggacct tctgctacag 720
gagaagatgg cccatgtgga ggaactccga ctgatccacg ctgacatcaa tgtgatggaa 780
aacactatca aacaatctga gaatgacctt aacaagctgc tagagtctac aaggaggctg 840
catgatgagt ataagccact gaaagaacat gtggatgccc tgcgcatgac tctgggcctg 900
cagaggctcc ctgacttgtg tgaagaagag gagaagcttt ccttgatta ctttgagaag 960
cagaaagcag aatggcagac agaacctcag gagccccca tccctgagtc cctggccgct 1020
gcagccgctg ccgccaaca gctccaagt gctaggaagc aggatactcg gcagacggcc 1080
accttcaggc agcagccccc acctatgaag gcctgcttgt catgtcacca gcaaattcac 1140
cggaatgcac ctatatgccc tctttgcaag gccaagagtc ggtcccggaa ccccaaaaag 1200
ccgaaacgga agcaggatga ataaagaaag ggagagcaca tgaagctttg ctaattataa 1260
cccctcacct tgaccagagt cattgatgtc ctgatgtgaa acaacccttg cccaacccca 1320
cgaagtctcc tatttaagt gatggaagca caaccctct ctcactttgc tcctatttct 1380
ttctgctctt gggatttctg gtttaggaag agatgtggtt caggtgctaa acagtgtgtc 1440
tgatgatccc ttctctcca ctacatttc aaccctgcc cttgtttgga gctaagggaa 1500
gggcaaaagg ctcatatag attctctatc tcttgtgctt gaggcctgga gcctaaggag 1560
ctgtagggtc tgaggggcag gggaggccca tatcttgttt caggtaaagg acccagtatt 1620
tcccctcctt gtacttttgc cttagggttct caagggacta tagtcttcat gttggattct 1680
ccaacaggct ggggtgatgt atccccctac tctaccctc atctcactct taaggcccag 1740
aggtagcttg gacaagccct cttttcata atcatttggg aggcattggct gtaattcttt 1800
agctttctcc acttctgtct cccacatata ctaaaattct taggtactag gctgtgtgtc 1860
ttgggatctt aagatcaatg aacctttccc caatatctag tctttgcaa ttctagtaga 1920
agatttcac agtgaaatca gtgagccaga ccaactctac atctcctgcc taacctactg 1980
cctaagtcat tagggctgag ggctcggctg taggggcttc cttaggctga gagggtcccc 2040
aggctgacat ctgtgttggc tttgttcag aaccattact ctggcacatg ctcaatggta 2100
tattgcaggg aggagaggag tagatttaga tttgagtaa tgccaatcac ttacacatg 2160
aagggtgggtg ggactttcct tccattcatc cttgtctctc ttggatctga actcttctgg 2220

agcctcagct caggatagct gctggccact cctgtcctgt ggattgtgca ggtggccttt 2280
cctcccaaaa gaaaaggcat caggctcccc aagccccaca gctctccttt ccaccaaagc 2340
caggtttcct ggtaaggtca ctcgaagata agggatgggg atgggggctg actgacaaaa 2400
aattttagcc ccaggcttca gtacctggct ggggaggggg atattttcc ttccttaagt 2460
agttttacat tgccacagtg tgtatgtgtt cactatataa aatgttcctc tgctctttga 2520
aagtaagagt gttgtgtctg taaaaatcct tttaacatgc attcattgga gtaaattctg 2580
agtatctact gtgtattgga taatacaaaa gatgtaatgt catttacctt tctgggt 2637

<210> 914

<211> 1440

<212> DNA

<213> Homo sapiens

<400> 914

gcggaagggt gcggcgaggc gaaatggcgg cggtgcgga ctcgttctca ggcgccccg 60
cgggggtgcg gcttccaggg tcgccgccac tcaaggtgct ggcgagcag ctgcggcgcg 120
acgcggaggg cggccccggc gcgtggcggc tgtcacgggc ggcggcgggc cgcgggccgc 180
tggacctggc ggccgtgtgg atgcagggca gggtagtgat ggcgaccgc ggcgaggctc 240
ggctgaggga cccgagcggg gacttctcgg tccgcggcct ggagcgggtg ccgcgcgggc 300
ggccctgtct agtcccagga aagtatgtga tggatgagg agtggttcag gcctgcagcc 360
ctgagccctg cctgcaggct gtgaagatga cagaccttc tgataatccc atccatgaaa 420
gtatgtggga actggaggta gaagatttac acaggaatat tccttagagt atgttggaac 480
tgtcgttaaa aacaacaaa atcccgaac tatttagaag cttataatga tgtgggtttc 540
atggacactt ttcaatgcgt atttttcaaa tgcttctcag agagccttgc tttggttgac 600
caaggagtcc ggatgtagga atgtttaaat cctcggatac ttcagtgaca cagcctctgc 660
tgccccttgc tttgcctgtg tttgctgatg aaaagcagat gcttgtgttt cattttcctt 720
cctggtttgt gtgtgttaat tctctctctc tctctcagac acagaagtct catgttgcac 780
tttccaaatt ttatgagtga tgatactttt tccattactg ctgcgtccct gttttacaat 840

gcaaaattta agtacggtca ttgcccatgg tgattaaagt gtggttatgg gcaggaagac 900
 agactgtgta aaaaaggaat gacatcctgg ctctcatct tcttcatcag caactacat 960
 aaccagtttg cgagtcaaat ggcatttcct aacggcaggc atggcggccc ctgaaagaca 1020
 acagctccct ttctgcttcg gacaccactc aaacatttag acgcagctct atcccttttc 1080
 ctagctagag aaggtgatgc cttcttccat tactcagaga tggtgagacg ttttcagaat 1140
 ttcttggtga aatgaaaaac atcaagataa aggacgcctt tcaggcatta gctaaacttc 1200
 cacttcataa ctttcggcga gacgtggtga gcctcctggt gtagagttct tttgtctttg 1260
 tatggaatga ctttttgctg tgatggtttt gaatgttggg tttctgctgt ctgcttagta 1320
 cccatgcctg aattttttga gattgtaaat atcaaaggag ttagattgtg tcctgacatg 1380
 gttgtagact ttcacctgga ttattgatat tctacctcta ataaattttt aataggctgt 1440

<210> 915

<211> 1780

<212> DNA

<213> Homo sapiens

<400> 915

acttccggtg tgtgagcctg ccgttgctac ataaccgcgt agtttgagcc atttctgcgt 60
 ctggcggggtc cttctgaact tgtcaccttc gcttggggtc gcaacgaccc gatgatcgat 120
 gatccaagca agggaaaaga agccttggcg gagagcggag gtttggtggg ggcggggaat 180
 ggggtttttt tcccgtccac ggaagctttc tgggatgggg gtgctgtgct cgcaccccg 240
 gggttggaat tggcggggtc ctctgtgccc tgctgtgagc gtttccagga ctttgacctc 300
 gctcagcctg cctctctcca ccctacctgt gcgaccgctt tctcgcagtg tgacgtggag 360
 tgttactcaa tgtccttata ctttccattg ctgttttttg taatggggac attagaacca 420
 tcctagtaga atcgtttttg ggaactgaaa gagataacgc aaatgagaac cttaaagcag 480
 tccctgtcac ttggtgactg gtggtctctt gttaacttcc cgaagaggtc aggtccccgg 540
 gtggagtcac agcttcagct gcagggggccc tggctcttct ccctaattcc tgcaggacgc 600
 tggatgatcc cgggaggcct tctgacctct ttttaggaaa gcgagttgcg tccgcttcca 660

cgaagggcgg ggagcattta acttttatgg gggaccgcga tgcagtcagg gtatttcaca 720
actttcgccct tccccagcct gacctttcta aaagagctgc agggagggga cttcttggct 780
actgagggca aatctctatg tgattggtcc ttggcttttt tcctttatag agatgttcac 840
ccaaccgaga gtgtgtcctc gggaatgggt gttgataatc attaagccgt aattggtaac 900
ttcattctaa gtgctttata caaataaatt taggccacac tgtggctctg tgaagtattg 960
cttttctttg ttttaaaaat gagagtgaga cacagggtgc atagcagcca actagtgaga 1020
ggtagagctg gggttggcac ctaggcagtc caggtcagag cctgagttga tcacctcttg 1080
gatacattct cattgaggca gaggaactag ctggactcgt agggaaagca agttaggacc 1140
tgattgaaag gacgttgaga gcaaggctcg tgggcttgga cgtctaggaa tttttaaaaa 1200
tttctcaact attttgtttc atgttttcca agtatttcgt actgttgtgg aactgtatca 1260
ttgtggaaaa gtctgaaata ggagaaatga gagtagaaaa agttttttaa ttacccatgt 1320
atccaagatg taaaggtagt aactgttaag cttctaattg atttcttttg tctttctttg 1380
tgtctacttc tatatttggt gataaacatt tttttttaaa aattgttata ttttaatgtg 1440
ttttcccata tgtcttttta ctatagaaaa ttttaaataat tgctaataga gactaaacta 1500
gtgaggctgg ttgtggtggc tcatgcctat aatcccagca ctttgggagg ccaaggcagg 1560
tggatcactt gaggtcagta gtttgagacc agcctggcca acatggtgaa accccatctc 1620
taccaaaaat acaaataatta gccgggcgtg atggcacgtg cctgtagtcc cagctactct 1680
agaggctgag gcaggagaat tgcttaaacc cgggaggtgg aggttgcagt gagccaagat 1740
cacgccactg cactccagcc tgggcaacag agtgagactc 1780

<210> 916

<211> 1680

<212> DNA

<213> Homo sapiens

<400> 916

acgtgcgcag ggggtgtggaa acttaccggc tgagccatgg atacaccgtt aaggcgcagc 60
cgacggctgg gaggcctaag gcccgaatcc cccgagagcc tcacctcagt ttcgcggacg 120

agacgggccc ttgtggagtt cgagtcgaac ccagaagaaa cgaggagacc cgggcctcct 180
ccgagtgtgc agcgggctgg cctgggggtcc cccgaaaggc cgccgaagac aagcccagga 240
tcaccccgtc tgcagcaggg tgcaggcttg gagtcacccc aagggcagcc agagccaggc 300
gcagcgtccc cccagcgtca gcaagctccc ggtccggagc cctctcagcc actactggag 360
ctgaccccg ggcccccca gcatcagcta ccgccgtcc caggatcacc agagccttac 420
cccggtcagc aagccacctc cagctgggga gacggtgaca ggcggcttcg gggcaaagaa 480
gcgaaaaggt tcttcatccc aggccccagc gtccaagaag ttgaataaag aggagcttcc 540
tgtaatcccg aagggaagc ccaaatcggg gcgagtgtgg aaggaccgct ccaagaaaag 600
attctcccag atgcttcagg acaagccct gcgcacatcg tggcagcgga agatgaagga 660
acgacaggag aggaagctgg ccaaggactt tgcccgtcac ctggaggagg agaaggagag 720
gcgccgccag gagaagaaac agcgccgggc tgagaacctg aaacgccgcc tggagaatga 780
gcggaaggca gaggtcgtcc aagtgatccg aaaccccgcc aagctcaagc gggcaaagaa 840
gaagcagctg cgctccattg agaagcggga caccctggcc ctgctgcaga agcagccgcc 900
ccagcagccg gcagccaaga tctgagctca ggacggcccg aggccttcca tggccaacaa 960
acatgtcaga cacagcacct caggccgctg ctcatatgcc tctgctggag ctggcactcc 1020
aaacccatgg ctccagaaca gggaccccca ccccgaccgg ggctcctcag cctttgaagg 1080
cttccaggca ggtctgtgtg ggacagaagc ccagaggggg cctgggacct ggcagagatg 1140
ggggcgggaa gagattcagc tccatccct cttctcttc cttctccaag tgccttcaaa 1200
ccaagaactg tacattcttc tggttcctca gtgagctggt gactggcagg tgactccctc 1260
agcagtgtat gccctttctc agcatcctag gtccatccca ggcctggagg ctgacagtgt 1320
ggaatccagc ttccccaca ccttcccaa ggctgctctg agcacctcca caccctactg 1380
cctctgtccc cagcaaactg aatccggttc ctctccactt ttcaatactg aaagattaaa 1440
atggggaggt tgcagggagc agagcttttc cctagcacc actttccaa accagtctct 1500
gcagaagccc cagagaatct aactcatgcc tgtccagtct acagcaaaaa tatttattga 1560
gtgcctgttg catacaggca caatcctagg caccggcaaa tacagacaat agaccaaagt 1620
ccctgccctc gaggagcttt cattctgatg gagagaaaac ataataaaca agcaaaatgc 1680

<210> 917

<211> 2754

<212> DNA

<213> Homo sapiens

<400> 917

```
actttccaaa ttcagctttc ccgggaggtc tggagcagct gcctctctgg ggagatgctg    60
gaggtctcgg aatcacctca cacggcctca gggcccagtt ggagccaccc caagtgcacac    120
cagcaggcag atgaccagag agcctgagcc tccggccccg agtctgtgaa gcctagccgc    180
tgggctggag aagccactgt gggcaccacc gtgggggaaa caggcccgtt gccctggcct    240
ctttgccctg ggccagcctt tgtgaagtgg gcccctcttc tgggcccctt gagtaggttc    300
catggcattt tctgaactcc tggacctcgt ggggtggcctg ggcaggttcc aggttctcca    360
gacgatggct ctgatggtct ccatcatgtg gctgtgtacc cagagcatgc tggagaactt    420
ctcggccgcc gtgccagcc accgctgctg ggcacccctc ctggacaaca gcacggctca    480
ggccagcatc ctagggagct tgagtcctga ggccctcctg gctatttcca tcccgccggg    540
ccccaaccag aggccccatc agtgccgccg cttccgccag ccacagtggc agctcttgga    600
ccccaatgcc acggccacca gctggagcga ggccgacacg gagccgtgtg tggatggctg    660
ggtctatgac cgcagcatct tcacctccac aatcgtggcc aagtggaacc tcgtgtgtga    720
ctctcacgt ctaaagccca tggcccagtc catctacctg gctgggattc tgggtgggagc    780
tgctgcgtgc ggccctgcct cagacaggtt tgggcgcagg ctggtgctaa cctggagcta    840
ccttcagatg gctgtgatgg gtacggcagc tgccttcgcc cctgccttcc ccgtgtactg    900
cctgttccgc ttctgttgg cctttgccgt ggcaggcgtc atgatgaaca cgggcactct    960
cctgatggag tggacggcgg cacgggcccc acccttgggt atgaccttga actctctggg   1020
cttcagcttc ggccatggcc tgacagctgc agtggcctac ggtgtgcggg actggacact   1080
gctgcagctg gtggtctcgg tccccttctt cctctgcttt ttgtactcct ggtggctggc   1140
agagtcggca cgatggctcc tcaccacagg caggctggat tggggcctgc aggagctgtg   1200
gagggtggct gccatcaacg gaaagggggc agtgcaggac accctgaccc ctgaggtctt   1260
gctttcagcc atgcgggagg agctgagcat gggccagcct cctgccagcc tgggcaccct   1320
gctccgcatg cccggactgc gcttccggac ctgtatctcc acgttgtgct ggttcgcctt   1380
tggcttcacc ttcttcggcc tggccctgga cctgcaggcc ctgggcagca acatcttctt   1440
```

gctccaaatg ttcatgtgtg tcgtggacat cccagccaag atgggcgccc tgctgtgtgt 1500
gagccacctg ggccgcccgc ccacgttggc cgcacccctg ttgctggcgg ggctctgcat 1560
tctggccaac acgctggtgc cccacgaaat gggggctctg cgctcagcct tggccgtgtt 1620
ggggctgggc ggggtggggg ctgccttcac ctgcatcacc atctacagca gcgagctctt 1680
ccccactgtg ctcaggatga cggcagtggg cttgggccag atggcagccc gtggaggagc 1740
catcctgggg cctctggtcc ggctgttggg tgtccatggc ccctggctgc cttgtgtgtt 1800
gtatgggacg gtgccagtgc tgagtggcct ggccgcactg cttctgcccg agaccagag 1860
cttgccgtg cccgacacca tccaaaatgt gcagaaccag gcagtaaaga aggcaacaca 1920
tggcacgtg gggaactctg tcctaaaatc cacacagttt tagcctcctg gggaacctgc 1980
gatgggacgg tcagaggaag agacttcttc tgttctctgg agaaggcagg aggaaagcaa 2040
agacctccat ttccagaggc ccagaggctg ccctctgagg tccccactct cccccagggc 2100
tgcccccca ggtgagccct gcccctctca cagtccaagg ggcccccttc aatactgaag 2160
gggaaaagga cagtttgatt ggcaggaggt gaccagtgcc accatcacc tgccctgccc 2220
tcgtggcttc ggagagcaga ggggtcaggc ccagggggaac gagctggcct tgccaacct 2280
ctgcttgact ccgactgcc acttgteccc ccacaccgt ccacctgccc agagctcaga 2340
gctaaccacc atccatggtc aagacctctc ctagctccac acaagcagta gagtctcagc 2400
tccacagctt taccagaag cctgtgaagc ctggcccctg gcccctcccc atgtccctcc 2460
aggcctcagc cacctgcccg ccacatctc tgctgtgt ccccttccca cctcctccc 2520
tgaccgactc cacttaacc ccaaaccag ccccccttc aggggtccag ggccagcctg 2580
agatgcccgt gaaactcta cccacagtta cagccacaag cctgcctcct cccaccctgc 2640
cagcctatga gttcccagag ggttggggca gtcccatgac ccatgtccc agtccccac 2700
acagcgctgg gccagagagg cattggtgcg agggattgaa taaagaaaca aatg 2754

<210> 918

<211> 2322

<212> DNA

<213> Homo sapiens

<400> 918

agaaatggcg gttggggcgg agcagggggc tggcgcgga agcggggctg tctggctcgg 60
ttacgcccc acctcgccag gaatctagga gtcggtttgt tttccgaacc catctccttc 120
cgctctcccg cccctgcagg ctgtgtgccg agcttggaag aaagtgtgac ccgttcgacg 180
gaacaaagga catgacagcc cggccccgtg cggccactgc ggagcgtag gaacattccc 240
taaaatggcg gccggcgcgt cggaacaggg cgggagggcg cggcgcgtgg gggcgggacg 300
gggagggggc cggccagccg ggcttctgt tccgcgaccc cggcgggtgca gggcgggtgg 360
agtcgaggag tagtctcat ggccgcccc cggagcccg gtgagcccga ggagaggaag 420
tcccttaagc tcctagggtt tttagatgtt gaaaatactc cctgcgcccg gcattcaata 480
ttgtatgggt cattaggatc tgttgtggct ggctttggac attttttgtt cactagtaga 540
attagaagat catgtgatgt tggagtagga gggtttatct tggtgacttt gggatgctgg 600
tttcattgta ggtataatta tgcaaagcaa agaatccagg aaagaattgc cagagaagaa 660
attaaaaaga agatattata tgaaggtagc cacctcgatc ctgaaagaaa acacaacggc 720
agcagcagca attgaacaat cttgagcata gaagtcaatg taaacgaagt taagatcaac 780
cacataaac atttcatgtg caataagctc tcaatcaagt aaataaagtt taagttgtag 840
tcattttttt cccacacttg tgtggaatga aaacttgcca gtttattctg gccctgtgtc 900
tactgccagg atagcattct tacgtgttac atagtgga cttgtcatcc ttaaaatgtg 960
aacagaattt attggcagt tggcaaagaa ttataaaaca tagtgtttaa tgtacttgga 1020
gtttccttgt agtagtaagt atagagtttg atgataagta aacgtccctt aacaaaaacc 1080
tcaaccttat tactatccca ttaaaaaaca gcaaatactt actgagttct tgtaagagct 1140
aatgtcattg taagatttaa aactaagggc tttatcact ttgcaaatta ttttttaaat 1200
gcattcatca ttgacagt tctctcatt tcttaaaatg cgagtcatt tccaaaagag 1260
ttgttttaa ctgccctaaa atttttgggg aagtatgcag ggtttaaatt ttttaagtata 1320
attagtctg aattaaaata tgcacatgga acttgtctgg cagactgatg caatagtaaa 1380
acaactgcag aattactatt aatgtaaaca atccatttga aagtcaatca gctgctccca 1440
ttaaaatatt atttaaaata caataccac agcatctaac taaatcctca ggatttattc 1500
tccgggagaa attatccctt tctaggaaaa tgaagttatt tctggtttta attcatacaa 1560
tactttaaga aaatctgtta aatataacaa aacacaagct agatgcttaa gaaatgctta 1620
aagaaatatt ggggcgaagg taacagcagt caacaggatt gtggccatta ctggtcctat 1680

tattttgatg taccatggaa ggcacagaaa tcgagcaagg aagaaaatat tagttatttt 1740
gatctacatc tttttctaaa gaaaagtgga gcttgcctcc agttcaattc acaagagcat 1800
tttccctccc atgcccacct tttcttgtgg ctgtcgctag gaaggatgca gaggctgtgt 1860
ggtttaccaa atgccttaac ttagcagtga atgacaactg tcaaacacat gttgagggaa 1920
aatttttact gattcacaaa aaggaagaca gtttggccac tcttagtggc acaaatcaaa 1980
gctgcatgca ctacattatc caaattagtc gtaaccaaat agttaaaaaa ttctgctggg 2040
cacggtggct catacctgta atcccagcac tttgggaggc cgaggcagtt ggatcacctg 2100
aggtaggag tttgagacca gcctggccaa cagggtgaaa ccctgtctcg tctaaaaata 2160
caaaaattag ccgggcgtgg tggatgcatgc ctgtagtccc aggtactcag gaggctgagg 2220
caggagaatc acttgaaccc gaggtggggc aggcggagggt tgcagtaagc caagatcgcg 2280
ccattgcact ctagecctagg tgacagagtg agactccatc tc 2322

<210> 919

<211> 2528

<212> DNA

<213> Homo sapiens

<400> 919

gaatattgtc atcacctaag aaagaaaccc catactcttt aactattatc tcccatctcc 60
cagccccctt cctccccaac caacctcatt tttagttttt atttgttttg attggtgaac 120
ctggggcatc cctcgtaggc agggccagat aaagcagggt gtaccttgac ccaagaaata 180
aaaacagctg ggttccaaaa ggcacataga ttcccagttc acaggaatgg aaacttgcct 240
cctgcctgcc cccttacctc ccagcgcgcc tgccccctta cctcgcagcg cgcctgcccc 300
cttacctcgc agcgcctctg ccccttacc tcccagcgcg cctgccccct tacctcgcag 360
cgcgcctgcc cccttacctc gcagcgcgcc tgccccctta cctcccagcg cgcctgcccc 420
cttacctcgc agcgcgcctg ccccttacc tcccagcgcg cctgccccct tacctcgcag 480
cgcgcctgcc cccttacctc gcagcgtgcc tgccccctta cctcccagcg tgcctgcccc 540
aggcagcagc agcctcctct tgacttttta agaaatgaac ataggtttaa ggtattttca 600

gtaccaggct ctgtgctagg tactttcaca ttattttctc tccaaatctt cccaacaatc 660
ctttcaagta gccattggtc ccacttcacc aatgacccaa cagaaactca gggaggttcc 720
gtatcttgct caaggtcaca cagctggatc agaaccagc tgtctgttag gcaggttcac 780
tgcacactag ttaccaactt gtcagagtcc agtgaggcaa acaccacaa gttacataac 840
gctgagtcca gcgaggcaaa cacaagtac atgcaacgtg tttattacc ataggtaggc 900
actaaggggac aacagaaggc tgggattcat ttggagctgg acccctacgg ctcaggaaag 960
ctgctgaggc agctggggga tggaccgttg tctgtgcatg cctgactttt ttttttgttg 1020
ttggtttgtt gtgagatgga gtctcgctct ttcaccggg ctggagtgca gtggtgtgaa 1080
ccctgggatt caagcaattt tcctgcctca gcctccctgg tagctgggat tacaggcgtg 1140
cactaccacg tccagctatt tttttttttt ttttagtaga aacagtttcg ccatgttggc 1200
caggctggtc ttgaacttct gacctcaggt gatccacccg cctcggcctc ccaaagtgtt 1260
gtgataacag gcatgggcca ccacgccag ccagccagac ttgtactgaa gctgaggggac 1320
cccagaaacc agcccgccct gtttttcgtt tgtttgtttg tttgtttgat acagagtctc 1380
actctgtctc ccaggctgga gtgcagtgtc gccatctggg ctactgcaa cttccgcctc 1440
ccaggttcaa gcaattctcc tgccctagcc tcccgggtag ctgggactac tggcacgcac 1500
caccacacct ggctagtttt ttgtattttt agtaaaaacg gggtttcacc gtgttagcca 1560
ggatggctctc aatctcctga cttatgata cgcccgcatc ggcctcccaa agtgcctggga 1620
ttacaggagt aagccaccgc gcccggttc tgccctgggc tttataccct ggggccatgt 1680
gacatgttgg gctgaagtgt tgaaggacat gctttttcta gggggactgg aacagagcat 1740
ggctgtgctg gccagtcctt cttccctca ggatgttgca ttctctgcac actctacagt 1800
tttatttatt tatttattga gacagtcttg ctccatcacc caggctggag tgcagtggca 1860
ctgtctcagc tcaactgcaac ctccgcctcc caggctcgag ggattctccc tgctcagcct 1920
cccgtgtagc tgggattaca ggtgccacc accacgcttg gataattttt gtatttttgg 1980
taaagacggg gtttcagcat gttggctagg ctggtcttga acttctgata tcaagtgate 2040
tgcccgctc ggcctcccaa agtgcctggga ttacaggcgt ctacagttat tcttgagaac 2100
tacaagcaag aaaggagggg agaaccaggc cagttcaagg ccactgggag aactgtcctg 2160
caccgcctgc ctctgaagcc catgatgttt ctgctttgtg ggacagttgt tcaggtgcct 2220
gcttccccag gccttccct gcgccttccc cctctctcct acacacacca tctgactgtc 2280
cttccagcac gtacacctcc agatgcttgg gttggcctga cccaaaacag tctactctcc 2340

cggccaagcc aattgcccct gggattttct gctcctccaa gatcccgtgc atagccctgg 2400
tggtggctca tgcccttaat ccttagttac tctagatgct gaggcaggag gatcgcttga 2460
ggccgaggag ttcaagacct cccctctccc aaatatttgt aaatgaaatt aaaagaaaga 2520
tccagccc 2528

<210> 920

<211> 2444

<212> DNA

<213> Homo sapiens

<400> 920

accactgtgc tggggtgtac atctacacta gacaccttcc tgcttcctc cttccagagc 60
agacctcttt gtcaccccgga gctccttggt tcttaagcag tcatgtctgt gacaaaaagt 120
actgagggtc cccaggagagc cgttgccatc aaattggacc ttatgtcgcc tcctgaaagt 180
gccaagaagt tggagaacaa ggactctaca ttcttggatg aaagtccttc agagtcagca 240
ggcttgaaga agaccaaggg cataacagtg ttccaggcct tgattcacct ggtgaaaggc 300
aacatgggca cagggatcct gggactaccc ctcgctgtga agaacgcggg catcctgatg 360
ggcccactca gtctgtctggt gatgggcttc attgcctgcc actgtatgca catcctggtc 420
aagtgtgccc agcgcttctg taagaggctt aacaagccct ttatggacta tggggacacg 480
gtgatgcatg gactagaagc caaccccaac gcctggctcc agaatcacgc tcaactgggga 540
aggcatatcg tgagcttctt ccttattatc acccaacttg gcttctgctg tgtgtacatt 600
gtgttttttg ctgataattt aaaacaggta gtggaagctg ttaatagcac aaccaacaac 660
tgctattcca atgagacggg gattctgacc cccaccatgg actcgcgact ctacatgctc 720
tccttcctgc ctttcttggg gctgctgggc ctcacccgga acctcaggat cttgaccatc 780
ttctccatgc tggccaacat cagcatgctg gtcagcttgg tcatcatcat acagtacatt 840
accaggaaa tcccagaccc cagccggttg ccaactggtag caagctggaa gacctacct 900
ctcttcttcg gaacagccat tttttctttt gaaagcattg gtgtggttct gcctctggaa 960
aacaagatga agaatgcccc ccacttccca gccatcctgt ctttgggaat gtccatcgctc 1020

acttcctat acattggcat ggcggctctg ggctacctgc ggtttggaga tgacatcaag 1080
gccagcataa gccttaacct gcctaactgc tggctgtacc agtctgtcaa gcttctctac 1140
attgccggca tcctgtgcac ctatgccctg cagttctacg tccctgcaga aatcatcatc 1200
ccctttgcc a tctcccgggt gtcaacacgc tgggcactgc ctctggatct gtccattcgc 1260
ctcgtcatgg tctgcctgac atgcctcctg gccatcctca tccccgcct ggacctggtc 1320
atctccctga tgggctccgt gagtggcacc gccctggccc tcatcatccc accgctcctg 1380
gaggccccca cgttctactc agagggcatg agccccctca ccatcttcaa ggacgccctg 1440
atcagcatcc tgggcttcgt gggctttgtg gtggggacct accaggccct ggacgagctg 1500
ctcaagtcag aagactctca ccccttttcc aactccacca cttttgttcg gtgagcctgg 1560
cactgctcct tgcctaccag caccgacctt.ttaattatat ggatctcttt ttttttttt 1620
ttttttgaga cggagtttct gtcttgttgc ccagactgga gtacaatgat gcgatctcag 1680
ctcaccacaa cttcggcctc ctgggttcaa gcgattctcc tgcctcagcc tcccgagtag 1740
ttgggattag aggcatagtc cagcacgcct ggctaatttt gtattttttag tagagacggg 1800
gtttctccat gttggtcagg ctggtcttga actcccgacc tcaggtgatc caccacccc 1860
ggcctcccaa aatgctggga tcacaggcgt gagccacctc gcctggccag atctctttta 1920
tatgcattat ctttatgtca ctgctttgcc ttttctctgg gccaagtcag ggtgaaacaa 1980
gaaagctaca agctctaaat ggtaattttt tacatttttg ttttgtttat tactttctct 2040
tttcatacct ctggcattcc actacattgt gagctttccc ttggaaggct ctggactcta 2100
tccaagctta tgataattca cacaatgaat ttcataccta gcgtggagct atgcaagaag 2160
cagccaccag agggccatta ctggtgcac tcttgctgat ataatggcca agaggaatca 2220
gaaacctgaa gttagaaagg ctcaacgaga acaagctatc agggctgcta aggaagcaaa 2280
aaaggctaag caagcatcta aaaagactgc aatggctgct gctaaggcac ctacaaaggc 2340
agcacctaag caaaagattg tgaagcctgt gaaagtttca gctccccgag ttggtggaag 2400
acgctaaact ggcagattag attttttaaat aaagattgga ttat 2444

<210> 921

<211> 2059

<212> DNA

<213> Homo sapiens

<400> 921

cttcaccgag gccatcacca agatgccgtt gtccccactg tggctctgtgc tcttcttcat	60
tatgctcttc tgcctggggc tgtcatctat gtttgggaac atggagggcg tcgttgtgcc	120
cctgcaggac ctacagagtc tcccccgaa gtggcccaag gaggtgctca caggcctcat	180
ctgcctgggg acattcctca ttggcttcat cttcacgctg aactccggcc agtactggct	240
ctccctgctg gacagctatg ccggctccat tcccctgctc atcatcgcct tctgcgagat	300
gttctctgtg gtctacgtgt acggtgtgga caggttcaat aaggacatcg agttcatgat	360
cggccacaag cccaacatct tctggcaagt cacgtggcgc gtggtcagcc ccctgtctcat	420
gctgatcatc ttcctcttct tcttcgtggg agaggctcagt caggagctga cctacagcat	480
ctgggaccct ggctacgagg aatttcccaa atcccagaag atctcctacc cgaactgggt	540
gtatgtgggt gtgggtgattg tggctggagt gccctccctc accatccctg gctatgccat	600
ctacaagctc atcaggaacc actgccagaa gccaggggac catcaggggc tggtaggcac	660
actgtccaca gcctccatga acggggacct gaagtactga gaaggcccat cccacggcgt	720
gccatacact ggtgtcaggg aaggaggaac cagcaagacc tgtgggggtgg gggccgggct	780
gcacctgcat gtgtgtaagc gtgagtgtat gctcgtgtgt gagtgtgtgt attgtacacg	840
catgtgccat gtgtgcagat atgtatcgtg tgtgcatgta catgcatggg cactgtgtga	900
gtgtgcacgt gtatgcacac atatacgtgt gtgggtgtgt gtattgtatg tgcattgtgc	960
atgtgtgcag atgtgtcatg ttgtgtgtgt gcatgtacat gtatggacat tgtgtgagtg	1020
tgcaagtgtg catgcatata catgtgtgct atatttgctg cccgtgtgtg tgcattgtata	1080
tatagacata catgcctatg ttgtgtgtgg tgtgcatatg tgtgaacaca cacgtgtata	1140
catgcatgca catgtgcttg tacaatgggt gtccacatgc acgtgtatat gtatatctgt	1200
gagtgtatat acatgcatgc aattgtgtgt atgtgtgttc tgtgtgtgctg tttgcaggta	1260
tatatgcaca tgtgtatatg tacatgtatg cctgtgtgac gtgtgtatat gtgagcatgt	1320
gtacgtgtgt gtatacgtgt gttgtatata tgtgtgtgtc tgtacctgtt tgtgtatatg	1380
tgtgtgatgt gtgctcgtgt gtgtgcatat tcaggcaggt gtgcatttgt gcatgccagt	1440
gtgtatgtat gtgcgcatat ggacacgcat ggacacgcat atggacacat atggacacac	1500
atatggacac gtgtggatat gtgtgcgtac acgtcgtgtg gacacatgcc tgccactcgg	1560

gccccagctg ccctctgtgt ttgtccttgc cacagtcacg ggggtgcatgt gcagagggga 1620
 gcagaccact ggggacgtgc tgtgccctgc acgtgcccgg gggaagcgga agctgcagct 1680
 ggggtggggg cagcacctct atgcttcacg tctgtgggtg gcaggagaca aaagcacagg 1740
 gtactatctt ggctcctggg agcgactctt gctaccacc cccacccatc cccttcccct 1800
 tgggtgtgac ctttgacctg ggggttccca gagccctgta gccctcgacc cggagcagcc 1860
 tctcggaagc cggagtgggc agttgctggc gattctgaga aaacttggcc gcatccaccg 1920
 gggccctgcc tccagtcggc cgctgccgag tctctgcgtt ctggccgctt cccggcttaa 1980
 tgaatgccag ccatttaatc attgctcctg ccaccacaaa tagatgagca gttaaataaa 2040
 actcaacttg gcataattc 2059

<210> 922

<211> 2289

<212> DNA

<213> Homo sapiens

<400> 922

cttccagggc ctggggattg tgggcaggtg gcatggagcg gatgagcaga actgttgatt 60
 gacaagcgaa gctggcttag caacagctgc agcacaagcc aggtggaagt gtgctgccct 120
 tcagcttgag atggctcagg gtgagcaggc agtgccagga gggctggcgg gccgcccttg 180
 gccatcctca gcgcccagca tccaagccag ggccagccag caagaaaggg gaagtggagc 240
 aagaagatgt tgagaactca ggggccctgt cagagttggg agggggccca gccccagaa 300
 aacaggattt cagagaggcc acgggcgcag ggataaatga ggtgagggcc tgggtgtgggg 360
 ttcccgaagg agagcgcaat agcccccttc tgtgtgtttc aggttagggg gccttgcatg 420
 aggtgggggc atggcttagc tggggtcaga ctgcccaggt tctaactctgg ctgtgtcccg 480
 ggctctcagg caagtagctc aggccccagg ctcttggttc caccctgtgc acctgaggga 540
 cattctttgt ggagtcccca gagaagggct gggggtcacc tgggtgggta gggaggtgcg 600
 ggctccagag aggagagact ggctgggtgct ggggtccgag tggagggagg gtgcttctga 660
 gcccggtcag ccaagcccc agccctaacc ctaggtgctg cccgcaggcc ggcagtgcga 720

gtggcgctcc attgacggca gcatcgtgct gcccctggcc cggggctccc caaaggcact 780
ggccctggag tacgactgt gcctcacagg cgacggcttg gccacctgc aggccaccga 840
ccccagcag ctgctccgcc tcatcccca tgtgcaggtg ttcgcccgtg tggctccaa 900
gcagaaggag tttgtcatca ccagcctgaa ggagctgggc tacgtgacc tcatgtgtgg 960
ggatggcacc aacgacgtgg gcgccctgaa gcatgctgac gtgggtgtgg cgctcttggc 1020
caatgccct gagcgggttg tcgagcggcg acggcggccc cgggacagcc caaccctgag 1080
caacagtggc atcagagcca cctccaggac agccaagcag cggtcggggc tccctccctc 1140
cgaggagcag ccaacctccc agagggaccg cctgagccag gtgctgcgag acctcgagga 1200
cgagagtacg ccattgtga aactggggga tgccagcatc gcagcacct tcacctcaa 1260
gctctcatcc atccagtga tctgccagt gatcaagcag ggccgctgca cgctggtgac 1320
cacgctacag atgttcaaga tcttggegt caatgccctc atcctggcct acagccagag 1380
cgtcctctac ctggaggag tcaagttcag tgacttccag gccaccctac aggggctgct 1440
gctggccggc tgcttctct tcatctccc ttccaagccc ctcaagacc tctcccaga 1500
acggcccctg cccaacatct tcaacctgta caccatctc accgtcatgc tccagttctt 1560
tgtgacttc ctgagccttg tctacctgta ccgtgaggcc caggcccga gccccagaa 1620
gcaggagcag ttcgtggact tgtacaagga gtttgagcca agcctggtca acagcacct 1680
ctacatcatg gccatggcca tgcagatggc caccttcgcc atcaattaca aagtaaggcc 1740
tgggccctgc ccaaacattc actgtctgcc caccagccc caccatga agccatctgt 1800
ccctcatccc cacagggcc gcccttcatg gagagcctgc ccgagaacaa gccctggtg 1860
tgagctctgg cagtttact cctggccatc attggcctgc tctcggctc ctcgcccga 1920
ttcaacagcc agtttggcct cgtggacatc cctgtggagt tcaagctggt cattgcccag 1980
gtcctgtcc tggacttctg cctggcgctc ctggccgacc gcgtcctgca gttcttctg 2040
gggaccccga agctgaaagt gccttctga gatggcagt ctggtacca ctgcccacc 2100
tggctgccgc tgggcggga cccaacagg gcccgggag ggaacctgc cccaacccc 2160
ccacagcaag gctgtacagt ctcgcccttg gaagactgag ctgggacccc cacagccatc 2220
cgctggcttg gccagcagaa ccagcccaa gccagcacct ttggtaaata aagcagcatc 2280
tgagatttt 2289

<210> 923

<211> 1934

<212> DNA

<213> Homo sapiens

<400> 923

atgtaccaag aggcatactg actccattga cagaagggtt tgttttgaca tagaagctgc	60
tgatcggcct ggcgttttct tgaccatgca ggcattttcc gaagaggaaa ggaagcagtg	120
gttgggaagct ctgggtggaa aggaagctct gtcccatagt ttttaatacag ccatcatccc	180
aagaccagaa ggaaatgcac agttggataa gatgggggtt acaattatca gaaaatgcat	240
cagtgccgtt gaaacacgag gtataaatga ccaaggattg tacagagttg tgggggtgag	300
ttcaaaggtc cagagacttc tgagtatgtt gatggatgta aaaacatgca atgaggtgga	360
cctggagaat tctgcagatt gggaagtga gacaataaca agtgccttga aacagtatct	420
gaggagtctt ccagagcctc tcatgaccta tgagttacat ggagatttca ttgttccagc	480
caaaagcggc agcccagaat ctctgtgtta tgcgatccat ttcttgggtac acaaactgcc	540
agagaagaat aaagagatgt tggatatctt ggtgaaacac ttaacaaatg tttcaaatca	600
ctccaagcag aacctgatga ctgtggcaaa cttaggagtg gtgtttggac caactctgat	660
gaggccacag gaagaaactg tctgtgccct catggacttg aagtttcaga atattgttgt	720
ggaaatctta attgaaaacc atgaaaagat ttttcggacg ccgcccagata ctacattccc	780
tgagcccacc tgcctgtcag catcaccccc aaatgcgcca ccaaggcagt cgaagagaca	840
aggccagaga accaagaggc ccgtggccgt ctacaatctt tgtctggagc tggaagatgg	900
tgacaatcct tacccttcca aggaggacac ccctaccagc agtctggact cactttcctc	960
cccgtctccc gtgactacag ctgtccctgg gcctcctgga ccagacaaaa accaccttct	1020
ggcagatgga gggagctttg gagactgggc atccactatc atccgcagtc ggaaggctcg	1080
agccgtgtat ccgtgtgaag cagaacacag ctcggaatta tcttttgaaa taggagcaat	1140
ttttgaggat gtacaaacct ccagggaacc tggctggcta gaagggactc tgaacggcaa	1200
gagggggctg attccacaga actacgtcga gctgctgtag ctcttggcct cagagcccct	1260
gctgaccctg gcaccaggg acctgcctgg gggcagagag ctgtcttctt cctccgaggc	1320
tctgggctgc acccacaggt acctccacac ttgggagtta ccatcatcac agtcagccct	1380

gggggtgggg ggtggtgggc agggatggga cgcaccacac agaactgtga ttgtggatca 1440
 ggaggggaat gtcaggattc gcaaaatgga cttttcattt gtcaagtatt gggacttgtg 1500
 atttttaatt atccagcata tagaatgaga gggagggcag ctttctgcca cctgtgtcgc 1560
 ctccactggc agtcacgcca ccagagccac cctggctccc tctcctccct gagcacctgc 1620
 tgctgcgatt ttaaaggga ctgtactact cgcagtgata ggtttgcaga gtgtgtgctt 1680
 ggctgtggca gcctagcttg gagaagctgc tgttgggtgca agggagatgg tctcaagtca 1740
 gagggaagca gagacgcgcg tctcaagcct gcccttccta gacggccacc tgcaggaccc 1800
 cacactcact gcaactggcag cgtgcactgg cgtatttgta acaggcttct cgggtgctcct 1860
 caccctgtg ctgttttcca aacaccacct tttgcctca aggtctctgt aaatgaaata 1920
 aactgtaatt tact 1934

<210> 924

<211> 2666

<212> DNA

<213> Homo sapiens

<400> 924

atgataaacc aataactttt ctgtccctga agttgagact tgtgaatata ttaataggtg 60
 ccttgcaaac tgaaacggac cccaacaaca cccaaatgat attaggggca atgttaaata 120
 ttgttcaaga ttcagcactt ttggaagcca ttgggtgcca gatggagatg ggtggtggag 180
 aaaataacct gaagagtcgt agtcgcacca atagtggat tagttcagca agtggtggaa 240
 gcacggagcc cacgactccc gatagtgaga gacctgtca agctctctta agagattatg 300
 ctcttaatac agattcagct gctgggctcc tgattcgcag cattcatctc gtcacccaaa 360
 gactcaactc ccagtggcgc caagacatga gcatatcact ggcagctcta gagctcctct 420
 ctggccttgc aaaggtaaaa gtgatggttg actcaggaga ccggaagcga gccatcagtt 480
 ctgtgtgcac ctacattgtt tatcagtgtg gtcggccagc tcctttacac tccagggatc 540
 tgcactccat gatagtggca gcttttcagt gtctctgtgt ctggctgaca gagcaccttg 600
 atatgcttga tgaaaaggac tgccttaagg aagtactgga gattgtggaa ctgggtatct 660

caggaagtaa gtccaagaac aatgggcaag aggtcaagta caaaggagat aaggagccaa 720
accctgcatc tatgagggtta aaggatgctg ctgaagccac cctaacatgc attatgcagt 780
tgctcggcgc atttccttca cctagtggtc ctgcctctcc ttgtagtctt gtgaatgaga 840
ccactttgat taaatactcc aggctgccaa ccataaacia gcatagtttc cggtactttg 900
tcttggataa cagtgtcatc ctggcaatgc tggaacaacc tcttggaaat gagcagaatg 960
atTTTTTccc ctctgtcact gtgctgggtcc ggggaatgtc tggaagactt gcttgggcac 1020
aacagctttg tcttttacc agaggagcaa aagcaaatca gaagcttttt gtacctgaac 1080
ctgcccagtg tcctaaaaat gacgttggat ttaaatatc tgtgaaacat cggccatttc 1140
ctgaagaggt ggacaagatt ctttttgtga aagcagatct cagcattcca gatttgcattg 1200
aaatagtcac tgaagaatta gaagagagac acgaaaaatt aaggagtggc atggcccagc 1260
agattgctta tgaaatacac cttgagcaac agagttagga ggaattgcag aagagaagtt 1320
ttcctgaccc agttacggat tgcaagcccc cgctcctgc ccaggaattc caaacagccc 1380
gcctttttct ctcacacttt ggatttttgt ccttagaagc actgaaggaa cctgcaaata 1440
gtcgtctacc tcctcacctt attgcacttg attccacgat acctggattt tttgatgaca 1500
ttgggtatct ggatctcttg ccatgtcgtc cttttgacac agtttttatt ttctatatga 1560
agccagggtca gaaaacgaac caagagattt taaagaatgt ggagtcttcc agaactgttc 1620
agccacattt cctagaattt ttgctttccc ttggctggtc agtagatgtg ggcagacacc 1680
ctggttggac tgggcatgtt tctaccagtt ggtctattaa ttgttgtgat gatggtgaag 1740
gatctcaaca agaagaagtg atttcctctg aagatatagg agctagcatt ttcaatggac 1800
agaagaaggt gctgtattat gctgatgccc ttacagaaat tgcttttgtg gttccttctc 1860
ctgtggagtc cttactgat tcattggaaa gtaacatctc ggaccaagat agtgattcaa 1920
atatggatct tatgccagga attctgaaac agccatccct gacacttgag cttttcccca 1980
atcatacaga caatcttaat tcctcacaga ggctcgggtc cagttccaga atgaggaagc 2040
tgccctcaggg tcgccctgtt cctccccttg gacctgagac aagagtttct gtagtctggg 2100
tggaacgcta tgatgatata gaaaactttc ccctctcaga gctgatgaca gagatcagta 2160
ctggtgtgga aactactgca aatagtagca cttactgag atctacaact cttgaaaaag 2220
aagttcctgt catcttcac caccctttta acactggatt attccggata aaaattcaag 2280
gagccactgg aaaatttaat atgggtcatcc ctcttgtgga tgggatgatt gtcagcaggc 2340
gagctcttgg ctttctggtg aggcagactg taattaacat ttgtagaaga aagagactgg 2400

aaagtgactc ctacagtccc ccccatgtcc gccggaaaca gaaaatcacc gacattgtca 2460
 acaagtaccg gaacaagcag ctggagccag agttttatac ttcacttttc caggagggttg 2520
 gactcaagaa ctgcagttct tagaccactg aatttctaag actgttgaac tccagtttgg 2580
 gaactataac acagcagaac agtttgatag gtgatcactg taaaaataaa aacaaatcac 2640
 tccaagagc ttactgttta atcacc 2666

<210> 925

<211> 1924

<212> DNA

<213> Homo sapiens

<400> 925

agatgctgtc attttcagaa gaagctgatg taaatgcctc tacaacctaa agcccagacg 60
 gagtcttgct ctgtcgccag gctggagtg aatggcacaa tctcagctca ctgcaacctc 120
 cgactcccgg gttcaagcaa ttctcctgcc tcagccttgc gaatagctgg gatttggtggc 180
 acgcacaacc acgcccagct aattttttgta tttttagtag agacggagtt tcaccatggt 240
 ggccaggatg gtctcgactc ctgacctcgt gatgcgcccg cctcagcctc ccaaagtgtc 300
 gggattacag gcgtgagcca ccgcgcatgg ccacttgcac tgcttttttag cagcgagctc 360
 tcagggtcaat caactgcttc cttagggttta caaactgtgg gtgtgtatatt ataaacacag 420
 ttgtttttgta tatcctttgt agagcacgtg gtgaaagtga cacaggaata aatgcaaacc 480
 tttttttccc cttctttttt caaagacata aatcccagga acactcacia ccgcagaagg 540
 ggatttgatg gacatacaaa gaaactaaat tttgtaccgc cgcagaagtg aagcatggat 600
 aagctcaaag gtatttaggc agtggttttat ttcaagattt gttatgggga cctccgccac 660
 gccctgggtc gccttcacca ggccgggcaa cactgcccag tccctgagac ccggccgccc 720
 actagggagc cgcggggggcg aggccgtggg ggtggcctcg gggaggaggt cccgagaacc 780
 acacttccca gagtgccgtg cgcagccccg cccagccccg cccgccccca gaggccgcgg 840
 ctgcgggggg ctgaggcgag aggacgcca gcgccccg gggctccgcg gggccgcgca 900
 ggagagcgcg cgtccgccgg gtgctcgcg ggggttgggt aggttccgct gagggcgggc 960

ggggctccgg gagcgtggta acgtggctgc aaccttagcg acatcaggaa gaacagggtc 1020
 gaggatcgag gtaacgggac gctcgtctcc cctcagtcctc ctcgtctccc ctcagtcctc 1080
 tcttcctttg tgcggtgccg tccgctcgcg ccgagccctc cctcaccca gccccaagt 1140
 cgcaacaccg tcccgtcttg ggtctccggt gtgcggagga aattcgagcc ctcgtgcacc 1200
 aaccgaaact ccacagctga gagggcttgg ggcccggaca gcaggagatc cagcccctga 1260
 gcaaccttcc acggcttttg tcgccccat tggcgggagg agcagggtta tgctcccggc 1320
 tcccgtaggg gagctccagc ctctggctct gtcagcctcc ccggcagctc cttgactcct 1380
 tcctcccagt ctttgaaga ggggcccagg caggtgcttc gcgggggtcca ggaagagggc 1440
 aggcgcggtg cggctggcgc gggttcgggg ccccgggagg gcggccggac gccccttga 1500
 gccgcggcct gcggggggcg ggcgagtggg ccacctccgg gccacgccgc gcggggacga 1560
 ggcgaggaag gcaactgcctg tccccactcg gggggcttgc tggccgccct ggaggtgcct 1620
 tcccgggagc ggcggtgtag accttgtgga gagtgcctcc tgatgtggaa ccaggaaccg 1680
 cagcctcttt ctagacgtc agccgcccgg tggagtgtt accgccacga tgacagctct 1740
 ttacgccttc cactccgtgc tgggttcagt tggcttgctg tttcttcag agagagcgat 1800
 ttggctacat agcttgaatt ttctacgtgt ctcgtgcttt actggacttg cactgttttt 1860
 ccctcttggc agtgtttaat cgggtgactt ttcataaaa acgttcagta tttcatctg 1920
 tggt 1924

<210> 926

<211> 2553

<212> DNA

<213> Homo sapiens

<400> 926

atagttcccc ttttctgtga aacaggaaac acatactgac gctttctggg ctcaactatg 60
 tcattttcag ggacgtcatg aatttggcct gtggagtgt gcgtgtcaac cccaagagaa 120
 gcgtgagtca ttattggaag acaactagaa agagggtcca cggatgactc caggagtctg 180
 ggttggctga aaccccggga agaaagactt ctccaatgta cactgatggt gggctcttcg 240

cctttatggc tttctctgct atcagcaagg gctgactcag catcctctgg actgtgagcc 300
aatgctgcta tttcagaggg ggccaattca ggcacaacag catctgcctt tagactatca 360
ggtacagccc agaccttgct aggaattatg agaccaccgt ctgatgcctt gctctcagaa 420
tttgtcagtt gtcgtggtgg ccagatttca gaagcggaag cctctagagt tataatcttc 480
agcttgttgc ctgcctccca atttccaggt ctatattctt tagactcttc caaaaggata 540
tcagagagag atggaacgtt gctcagagcc tgactgtctt cttccccagc agtttcagcc 600
accacagaga ccctcgtccc ccaacctgag cgctgccctg ctccttcctt agagcttgccg 660
ggtgagtggg ccgtgggcac caagtttctt tcctcttggt cagcagatgt cgtaggcaaa 720
ctttgttga aatcaggtgc agaaagagaa ccctgctggg acaggctctg ctgctggacc 780
ccctgctttg tttcacttcc tctttcttgg aaattctctt catagctcct aaagtctgct 840
ctgtccacag tctggctctt atctccagac aggttatcaa cctgaagagg ggaattactg 900
cagaaaccct ctccctctgg gagctgcagg acatgggtgtg ggactcctgg cacactgggt 960
gccctgcaaa gtagctcttt tgtagatttg atggtagcac cacttaaaat atgatccaac 1020
tgcacttggg aaggaaattg ggaaaccttt tcatgggatg cacgaggga cctctcctca 1080
gtgccacctg catgcttgct ctcaggaatt gacacagcaa ggtatttggc tgggtggact 1140
tcggtggcaa cggtaacagt tgatgtgtcc tcagtctccc tggtcgcttg aaagcactca 1200
ttattagcag ttaatgttgt tggcttctcc cagggaanaac tcacaattga actataactg 1260
gctgggtgtg ctgtggtgtc tgcggcacta ggactggggc tcttgtcacc tccttcttta 1320
aattgcacta aaggattgtt ctcagaagaa aggagctgtg tttcatcaag ccctcctgag 1380
ttgctggggc ttggctgctc ctggccagca tgtactgtgg aggccagtgg gtaggtggaa 1440
ttctccacct tggctagatt ttctcctgtg gcaccttcac tagctgtgtg tgaaatgttc 1500
aaggtgaaag tactgataaa aagaggggac atgactaagt tgccgtcctt gctgcttttg 1560
cacgtagaca ctgaagtctc agacacttgt gtctgaaaaa agacttccag tgtcttgtca 1620
ttagaagaac ataaatcaga tactttgttt tgaccttctg ccagttccgt atctacagag 1680
caaatttctt gaggcgaata tttatcaact ggtctcccaa caagagaatc tatggtatca 1740
aaacacgttc cttggtcacc agcctcaaaa cactccattg cacacactgc ttctctgtcc 1800
cttggtcat cacacacatt ttccagggtg agggcagtat ctgtgggttc aggggaagca 1860
acagagacag ccacaggctc cctgaagtca gcacgagcat ccttggggag atgccttgag 1920
aacacacctg gggacatagt ctcatcattg gcttctgaga tgctctgctc atattttagg 1980

tcttcctga aattgtcagg tatgttgcca tctctgtctt gtttttcttc atgctgtgga 2040
 ccacaggtac aggggtttgac ctccgagtgt tgagctaata atgcattttc cttgtggacc 2100
 cctcctaagt ttgagaagga aattgtcgtg gtcccagtga atggggactc ctccccagca 2160
 ggctctgaga aagctggcat ctggctgcaa gagattgtct ctctgactgt ttcctgaact 2220
 tgtacctagg aagatgaaaa gtgatattag tagaattgtt catgggagag cccacaatag 2280
 ggcataactg caatcccaag agtgtttaac ctcaatgacc gtaataatgg acaagaatga 2340
 ttgaaatcta aacattaatc cccaactcc ctctagctat tagagatttc ctagaaaact 2400
 gcaaatttaa gcaactctgt gttccagggg gccctttgtc aaattcatca ttataagcaa 2460
 aaagcctcct gacaaccatc atttatttaa tgatttcttt ctctcttagg aaatagatgg 2520
 aaataaatcg aatgttaact gttttgatca agt 2553

<210> 927

<211> 2993

<212> DNA

<213> Homo sapiens

<400> 927

caggccgagg gcgatggttt ctggtgggaa ggcccaggcc gagggcgatg gtttctgccg 60
 ggacggccga ggccgagggc ggtggtttct gccgggacgg ccagacgga agggatgcgg 120
 cttgggaggt ggggcctgag gatgtggcca tggcgcgtgc tcttctggc tggcgcctct 180
 cctagtcagc ttcaggagat gggctgtaga tgtacctca ctgccagag ctctgcaggg 240
 gaaggcagta aaagctccct gcacccctgac ccacgtgttt gtagatcctt tcagctattg 300
 gcgccctgga ggatggacgg gaaggagaac gtggccggtg ggtggaggat agcactgggtg 360
 cctggcccca tgaggctgca atgcggccac attctcagtg ggtcatgtct gaatgcgaga 420
 gcagctgtgt tctgcgagtg gtgaaacaat tgccgtgtgc attctattta taggcagagg 480
 taactaaaaa cctcagtgtg gagaggggca tcatatagat cctgcagtta tgagctgggtt 540
 cacttggagt tgttttgggt gcaggtgaca gaaagcacga ctcaaggtag catcaaccaa 600
 acagggaggt gggagcactc accaggcaga gaagtccttg cccccactgc tgcagcccaa 660

cagtgtggcc ccatatgggt ctccctggac taatggctgc ggccttggag gtggtgtgct 720
ctggccaggc ctggatcact tgtccatcct gagtgggagt gggggcagcc cccagagaca 780
gactcaggag aggggggagtg caaggatgtc ccccagatgc cctgtgctgc ccaggggaca 840
gtcactggc agtgggacga aaccgctgtc tgtccagggc tctcttccta gaaggtctta 900
ggaactccca aatgggtgct ggctgggggtt gcccggcccc gtgctctcaa ggagagctga 960
agctagtatt tgggtgcaga tgctggctct gacccctgcc ccttcctccc gggctcagct 1020
tccccatctg tcatggagta ataacaaccc agccttcttg tccactgagg aatgtgtgtg 1080
cctgtgtgtt tgacgtcttc agaacaggcc tgcagcgtg tgagccttg aagggggcct 1140
cacagctgct gccgccacct tggaggccca ggatgggact gagaagggga agggagaggt 1200
cagagccaca gctgttgggc agggacctgc tgtaggaaga gaaggccagg gaggcgctgg 1260
tggtggcctc aggctatgca ggtgatgccc attgtttcca gggccatccc agtttggagg 1320
ttcctgtttc tagaggaggt tcccttgtga cccctcatt tccacaccg agcaatgctg 1380
agggtgtgg ggccccagg ggcttgagtg tggtttatgg cacagcaggg acttatcaca 1440
gtggcaccgg gtgtcagtgg ccagtggta gtggccagga accctcagga ccctcctcct 1500
tgtgtgggtg gcatttacc acccacagg cacgctcagg acccgcatct cattccgac 1560
ctccttgtgt ggggtgtact taccaccca caggtcacgc tcaggacccc acatctcatt 1620
ctgaaggccg ggcacaggcg gttgttttct ctccaacttc ggtttcccca tccccactct 1680
tagggcaca atgcaggtgt agcttcccca tgccccactct ttaggcaca atgcaggtgt 1740
agcttcccca tccccactct tagggcaca atgcaggtgc agcttcccca tccccactct 1800
tagggcaca atgcaggtgc agcttcccca tccccactct ttaggcaca atgcaggtgc 1860
agcttcccca tccccactct tagggcaca atgcaggtgc agcttcccca tccccactct 1920
tagggcaca atgcaggtgc agcttcccca tccccactct tagggcaca atgcaggtgc 1980
agcttcccca tccccactct tagggcaca atgcaggtgc agcttcccca tccccactct 2040
ttaggcaca atgcaggtgc agcttcccca tccccactct ttaggcaca atgcaggtgc 2100
agcttcccca tccccactct tagggcaca atgcaggtgc agcttcccca tccccactct 2160
ttaggcaca atgcaggtgc agcttcccca tccccactct ttaggcaca atgcaggtgc 2220
agcttcccca tccccactct tagggcaca atgcaggtgc agcttcccca tccccactct 2280
ttaggcaca atgcaggtgc agcttcccca tccccactct tagggcaca atgcaggtgc 2340
agcttcccca tccccactct tagggcaca atgcaggtgc agcttcccca tccccactct 2400

ttaggcacaa atgcaggtgc agcttcccca tccccactct tagggcacia atgcaggtgc 2460
 agcttcccca tccccactct ttaggcacaa atgcaggtgc agcttcccca tccccactct 2520
 tagggcacia atgcaggtgc agcttcccca tccccactct ttaggcacaa atgcaggtgc 2580
 tgtgagcgct ttagaatcct ctgctgcagg tgactttgct tcagcgaacc acagaatgtt 2640
 cacatggttt tatgcatttg ttatttcagg gaaaatcaag gttaaagatg tcttcagaat 2700
 ttgtattttt gggctgggca cgggtggctca cacctgtaat cccaacactt ttggaggctg 2760
 aggcaggcgg atcacgaggt caggagatcg agaccatcct ggctaacacg gtgaaactcc 2820
 gtctgtacca aaaatacaaa aaaattagcc ggatgtggtg gcggggcgct gtagtcccag 2880
 ctactcggga ggctgaggca ggagaatggc gtgcacccgt gaggcagagc ttgcagttag 2940
 ccgagatggt gctgctgcac tccagcctgg gctacagagc aagactctgt ctc 2993

<210> 928

<211> 1768

<212> DNA

<213> Homo sapiens

<400> 928

actttcccgg agtgcacccc gcggccgcca gccggggcgga tggcggggct ctggctgggg 60
 ctcgtgtggc agaagctgct gctgtggggc gcggcgagtg ccctttccct ggccggcgcc 120
 agtctggtcc tgagcctgct gcagagggtg gcgagctacg cgcggaaatg gcagcagatg 180
 cggcccatcc ccacggtggc ccgcgcctac cactggtgg gccacgcgct gctgatgaag 240
 ccggacgggc gagaattttt tcagcagatc attgagtaca cagaggaata ccgccacatg 300
 ccgctgctga agctctgggt cgggccagtg cccatggtgg ccctttataa tgcagaaaat 360
 gtggaggtaa ttttaactag ttcaaagcaa attgacaaat cctctatgta caagttttta 420
 gaaccatggc ttggcctagg acttcttaca agtactggaa acaaatggcg ctccaggaga 480
 aagatgttaa caccactttt ccattttacc attctggaag atttcttaga tatcatgaat 540
 gaacaagcaa atatattggt taagaaactt gaaaaacaca ttaaccaaga agcatttaac 600
 tgcttttttt acatcactct ttgtgcctta gatatcatct gtgaaacagc tatggggaag 660

aatattggtg ctcaaagtaa tgatgattcc gagtatgtcc gtgcagttta tagaatgagt 720
gagatgatat ttcgaagaat aaagatgccc tggctttggc ttgatctctg gtaccttatg 780
tttaaagaag gatgggaaca caaaaagagc cttaatgatcc tacatacttt taccaacagt 840
gtcatcgcgg aacgggcca tgaatatgaac gccaatgaag actgtagagg tgatggcagg 900
ggctctgccc cctccaaaaa taaacgcagg gcctttcttg acttgctttt aagtgtgact 960
gatgacgaag ggaacaggct aagtcatgaa gatattcgag aagaagtga caccttcattg 1020
tttgaggggc acgatacaac tgcagctgca ataaactggc cttataacct gttgggttct 1080
aaccagaag tccagaagaa agtggatcat gaattggatg acgtgtttgg gaagtctgac 1140
cgtcccgccta cagtagaaga cctgaagaaa cttcggtatc tggaatgtgt tattaaggag 1200
acccttcgcc tttttccttc tgttccttta ttgcccgtg gtgttagtga agattgtgaa 1260
gtggcagggtt acagagttct aaaaggcact gaagccgtca tcattcccta tgcattgcac 1320
agagatccga gatacttccc caaccccgag gagttccagc ctgagcgggtt cttcccgag 1380
aatgcacaag ggcgccatcc atatgcctac gtgcccttct ctgctggccc caggaactgt 1440
ataggtcaaa agtttgctgt gatggaagaa aagaccattc tttcgtgcat cctgaggcac 1500
ttttggatag aatccaacca gaaaagagaa gagcttggtc tagaaggaca gttgattctt 1560
cgtccaagta atggcatctg gatcaagttg aagaggagaa atgcagatga acgctaacta 1620
tattattggg ttgtgccttt atcatgagaa aggtctttat tttaagagat ccttgtcatt 1680
tacaatttac agatcatgag ttcaatatgc ttgaatcccc tagacctaatt ttttccttga 1740
tcccactgat cttgacatca agtctaac 1768

<210> 929

<211> 1654

<212> DNA

<213> Homo sapiens

<400> 929

attgtataga agaacattgt gaaactccct gccctgttct gtttctctct gaccaccggt 60
gcatgcagcc cctgtcacat accgcctgct tgctcaaata aatcatgacc ctttcattgtg 120

aaatctttag tattgtgagc ccttaaaagg gacggaaatt gtgcattcgg ggagctcgga 180
 ttttaaggca gtagcctgct gatgctccca gctgaataaa gcccttcctt ctacaatttg 240
 gtgtctgagg ggTTTTgtct gcggctcgtc ctgctacatt tcttggttcc ctgaccagga 300
 aacgaggtaa ctgatggaca gccgaggcag ccccttaggc ggcttaggcc tcccctgtgg 360
 agcatccctg aggcggactc cggccagccc gagtgacgcg atccaaagag cactcccggg 420
 tagggaattg ccccggtgga atgcctcacc agagcagcgt gtagcagttc cctgtggagg 480
 attaacacag tggctgaaca ccgggaagga actggcactt ggagtccgga catctgaaac 540
 ttgatctcca gcaccctgcc ggtggcacta ctgagagacg aggtgccagg gtggttcctg 600
 aaagtgcctg agccccaact tatcagcaag gagctcatca tgctgacaga agtcatggag 660
 gtctggcatg gcttagtgat cgcggtggtg tccctcttcc tgcaggcctg ctctctcacc 720
 gccatcaact acctgctcag caggcacatg gccacaaga gtgaacagat actgaaagcg 780
 gccagtctcc aggttcccag gccagccct ggccaccatc atccacctgc tgtcaaagag 840
 atgaaggaga ctgacacaga gagagacatc ccaatgtctg attcccttta caggcatgac 900
 agcgacacac cctcagatag cttggatagc tcctgcagtt cgctctctgc ctgccaggcc 960
 acagaggatg tggattacac acaagtcgtc ttttctgacc ctggagaact aaaaaatgac 1020
 tccccgctgg actatgagaa cataaaggaa atcacagatt atgtcaatgt caatccagaa 1080
 agacacaagc ccagtttctg gtattttgtc aaccctgctc tgtctgagcc agcggaatat 1140
 gatcaagtgg ccatgtgaat tccaaatatt tttaatgggg tccagttctc tatggattct 1200
 tacatttaat ttgtaggga atgccatttt tcccccttaa acaaggcatg gggctcacia 1260
 gtctatggag acaggccaaa aagaatgtgg agaagaaaac tgataaatac acagagggtc 1320
 tcaagacca tggactcctg gtctgtaccc aaaaaagctg ttcgttctc aaaaacaaaa 1380
 acaaggcttg gctgggaaaa caggccaatg ccccggaag aaaggttgag atcagatgtt 1440
 aggaagaact ttcaggtaaa gtatgagaac tatggagtcc atcagcagag atagtagtga 1500
 agtctctccc cagggaataa tttaaaaagg ttgaatcagc tggtgtagag ttctatttgg 1560
 caatctcatg gttaaatac ttccttttga gctctttaat tattggcaat aaacaacttc 1620
 tttaaaagtt ttaaataaaa tagcaaccac cacc 1654

<210> 930

<211> 1947

<212> DNA

<213> Homo sapiens

<400> 930

caaagttctg	tgaaaacccc	tgcatgaact	gggcccctga	ctccaggaaa	acagaggcat	60
cttccaatgt	ccttggagcc	atgagacccc	gaaacaccta	ccgggaacag	aggggcttca	120
cccagacagg	ccccaccagg	gaggaggagg	cgctctccc	tcccaccacc	gttgtcgggg	180
gtgaccgag	gtgttcaga	tgaggagctg	aatcactggg	acttaagtca	ataagtggca	240
gccaccaggc	aggcccagct	ggagccaaac	caaggcctgg	attctcctcg	tggatgtctg	300
gtaaggcccc	accacgtacc	ccagtcacgt	agtcctctaa	actgaacaga	tttgggacgc	360
ttcctcttag	agggcagccc	tctttgggac	tgttagtctg	gccactttta	cacatttcaa	420
gcattttttg	ggttagaaag	ggcacatttt	ctgtatccaa	aacagccctt	acaggcagca	480
gtggtggtgc	atggggcctg	cgtcagcatc	tcatcgcttc	ctgaagcccc	agctgcctgg	540
agtggggccc	cttttgggtg	tggctcttca	ggagcaaggc	aaattgacgc	acagagaact	600
tgacggatgt	gtaaatggaa	cagcttcccc	gaggtacctc	gaggagggca	agggtaatga	660
aatgaatgaa	atgaaccctt	gcacagcgag	ggagcactta	caccctgaca	ccctcctgca	720
gggagaagga	agatgacaag	gatctctctg	ttgacctttt	catagtgcaa	acaagctact	780
gatagaaaaa	agaaaatgtt	ttcatgctta	aaaaaaaaata	aacaccatca	gcaacctttc	840
cccatgggga	gcagcagcag	gtgctaccac	aagagagaca	gacagatgga	tataattgcc	900
aagaggctct	caaaactgggt	tccaaggagc	cggggtgtgg	agcccctctt	caggactgtg	960
caggtgaagc	agggggctgg	gaacaaggcc	ggttattata	acccaacaaa	ctgggttcca	1020
aggagccagg	ggtgtggagc	ccctcttcag	gactgtacag	gcgaagcagg	gggctgggaa	1080
caaggccggt	tattataacc	caacaaactg	ggttccaagg	agccaggggt	gtggagcccc	1140
tcttcaggac	tgtacaggcg	aagcaggggg	ctgggaacaa	ggccggttat	tataacccaa	1200
caaaactgggt	tccaaggagc	caggggtgtg	gagcccctct	tcaggaccgt	gcaagcagaa	1260
gcagggggct	gggaacaagg	gggttattac	agcccaaccc	agagcaactc	agctttttcc	1320
tcgtcatctg	tcaggcttcc	aggtaagact	tcatttgaag	aaagggtcct	gcagtaaaga	1380
tgttgagaag	tgctgatatg	cgctgctggg	tatatgaaag	ggtggaagga	ggactggcac	1440

ggtggctcac tcctgtaacc ccagctactc cagaggccga ggcgggtgga tcacctaagg 1500
 tcaggagttc gagaccagcc tggccaacat agtaaaaacc catctctact gaaaatacaa 1560
 aaattagcca ggtgtggtgg caaatgtctg tagccccagc cattcaggag gctgaggtgg 1620
 gaggggtggct ggagtctagg agtttgaggc tgctgtgagc catgatctag ccaccgtact 1680
 ccagcctagg tgacagagtg agacctcgcc ttaaaattta aaaaataaaa taaaattcat 1740
 gggtaggcca ggcatagtgg ctcacgcctg taaccctagc acttgggaag gctgaggctt 1800
 ggccagacat ggtcgtgggc aactgtcgtc ccaactactc gggaggctga ggcaggagaa 1860
 tcgcttgaac ccggaaggcg gagcttgcag tgagccgaga tcgcgccact gcactccagc 1920
 ctgggcaaga gagcgagact ccgactc 1947

<210> 931

<211> 2150

<212> DNA

<213> Homo sapiens

<400> 931

agcgccgccg agaggtcccg cgggtggtcg cgcccatgac agcggctccc gaccggctca 60
 ccttccgcgc cctcccgcc agaggtgaga gtaaaatgtc cgtgtcaggg ttcaaggcca 120
 agctgaagtt gttgtcctct attttccaca agaaccagga gccgccgcgg cagctcaggc 180
 tccactgcaa catcacggtg aggcgcccag cggcggcttc acacggcagg gcgagggcgg 240
 agaggaagag cccggagtcc cgggacaaag gggaacctgc ccaggagagg ccccggttcc 300
 ccgggccggg tgagcgcgca cttttctccc gcgactggcc tggccccgat cgccgggact 360
 gcgggaggct tgggtgggag gagggggagg gcgcgtctct ctggctcctt gctgcggggc 420
 tggcttgggg gctgccggca cctctcgccc cagtcaccgc gccccgaggt gggagcccgc 480
 gtcgcccga gccctttcgg ggcccatggt cgccctcagt cagccagcct gctccccggg 540
 accgcgacgg ggcgtggcag ggcgtctccg gctgttgttt gagcccgggc ggggaagggg 600
 aaaggccttc aagattttcg gggttttggc cgggcgcagt gctcgttcct gtaatcccag 660
 tactttggga ggctgacgca gctggatcgc ctgaggtcag gagttctaga ctagcccggc 720

caacatggta aaaccctgtc tctactaaaa atacaaaaat tagccgggca tgggtggcagg 780
cacttggtga gatggagtct cactctgtcg cccaggctgg agtgcagtgg ggtgatctcg 840
gcttactgca gcctccgtct cttgacagtc catgggttca agcgattctc ctgcctcagc 900
ctcccagta gctaggatta caggctcctg acaccacgcc tggctaactt ttgtgttgtt 960
tagtagagac agggtttcac catgttggcc aggctggctc cgaactcctg acctcaaagt 1020
acctatctct gcctcccaga gttctgggat tacaggcctg agccaccgag cccagatcca 1080
aggcccttaa gcttaaagtgc ctggttcttc agtcagggtt tccttggtcc cgcagtgtca 1140
gccaatcgtg tttaaggaga aactaacaat gaaaacgggc ttgttgatgg aggaaaagtt 1200
ggaatgcagc ctctggtgct gtttgagcga tccctctatc ccgggtcgct gctgtgttct 1260
ggaaaggcac attgtaccct ggatgcagca gcttcatcag caatggaagt ggctgatatg 1320
tggactctgc agattatata accttctaa gcacccgaat gttgagatgc cagatcaacc 1380
actacccatg ggtcagaatg ggacaacaga agaagtgact tcaaaagaag aggaagaaga 1440
agagatggat gaagatatag aagacttaga tctactgtgag atgaaagaag agcctactag 1500
tgagaagaag ttggaggatg aaggaactga aaaagaaaac tgggcaatat tagagaaaat 1560
taggaagact gaaaggcaag gccatttaaa tgtgttgacc ctgatagtcc tttgcacagt 1620
gatcttcaga tcttaaaaga aaaagaagag ataggagaca ttttgcttat gttttaaggt 1680
atgtattggg tagaggagca ttatatatgg aacctctcac aaaacagggtg attatcttct 1740
tattatactc aattttcacc ctgaatagag tgttttgatt atgtaagtta gatcgtaagt 1800
agatggctct cttaaagaca ttttagtggt tttttgtttg ttttgttttg ttttgctttt 1860
ttccgtagct cctactttca agaatgaaaa aggtatccca gcagtttggg aggctgaggc 1920
gggcggatca cgaggtcagg agattgagac catcctggct aacacgggtg aaccccgctc 1980
ttactaaaaa atacaaaaaa attagccagg cgtgatggca ggcgactgta gtcccagcta 2040
ctcgggaggc tgaggcagga gaatggcgtg aacccgggag gcagagcttg cagtgagctg 2100
agatggtgcc actgcactcc agcctgggtg acagagttag actccatctc 2150

<210> 932

<211> 2467

<212> DNA

<213> Homo sapiens

<400> 932

aagctcttgg	ctgcaaagag	agaggatccc	gggtatctcc	ctccttacia	ccaccgccac	60
ctcctagtgc	cttagaagcc	actgacagcc	cccagggcag	gtgagccctg	catctggaat	120
aaggatccag	aggtctcggt	caggaccatg	gagagcggca	ccagcagccc	tcagcctcca	180
cagttagatc	ccctggatgc	gtttccccag	aagggttgg	agcctgggga	catcgcggtg	240
ctagttctgt	acttctcttt	tgtcctggct	gttggactat	gggtgggata	tccctctgtt	300
gctcagggtg	ctagaacgca	gtgggtggca	tcatggctca	ctccggcctc	gacttcttgg	360
gctcaagtga	tcctctcacc	tcggctgcca	gacacagagg	aggtactatc	tacgaggaac	420
aggctctcac	cagacaccaa	acctctcggt	gccttgatat	tgaacttcca	agtctccaga	480
atttccacag	tgaagaccaa	aagagacaca	gtgaaaggct	acttctggc	tggaggggac	540
atgggtgtgt	ggccagtggg	tgcaccttgc	tttgccagca	atgttggaag	tggacatttc	600
attggcctgg	cagggtcagg	tgctgctacg	ggcatttctg	tatcagctta	tgaacttaac	660
ggcttgtttt	ctgtgctgat	gttggcctgg	atcttcctac	ccatctacat	tgctggctcag	720
gtcaccacga	tgccagaata	cctacggaag	cgcttcgggt	gcatcagaat	ccccatcacc	780
ctggctgtac	tctacctatt	tatctacatc	ttcaccaaga	tctcggtaga	catgtatgca	840
ggtgccatct	tcacccagca	gtctttgcac	ctggatctgt	acctggccat	agctgggcta	900
ctggccatca	ctgctgtata	cacggttgct	gggtggcctgg	ctgctgtgat	ctacacggat	960
gccctgcaga	cgctgatcat	gcttatagga	gcgctcacct	tgatgggcta	cagtttccgc	1020
gcggttggtg	ggatggaagg	actgaaggag	aagtacttct	tggccctggc	tagcaaccgg	1080
agtgagaaca	gcagctgcgg	gctgccccgg	gaagatgcct	tccatatttt	ccgagatccg	1140
ctgacatctg	atctcccgtg	gccgggggtc	ctatttggaa	tgtccatccc	atccctctgg	1200
tactgggtga	cggatcaggt	gattgtccag	cggactctgg	ctgccaagaa	cctgtcccat	1260
gccaaaggag	gtgctctgat	ggctgcatac	ctgaagggtg	tgccccctct	cataatgggt	1320
ttccctggga	tggctcagccg	catctctttc	ccagatcaag	tggcctgtgc	agatccagag	1380
atctgccaga	agatctgcag	caaccctcca	ggctgttcgg	acattgcgta	tccaaactc	1440
gtgctggaac	tcctgccacc	agggtctccg	gggctgatga	tggctgtgat	ggtggcggct	1500
ctcatgtcct	ccctcacctc	catctttaac	agtgccagca	ccatcttcac	catggacctc	1560

tggaatcacc tccggcctcg ggcattctgag aaggagctca tgattgtggg cagggtgttt 1620
 gtgctgctgc tggtcctggg ctccatcctc tggatccctg tggccagggc cagccagggc 1680
 ggccagctct tcatttatat ccagtcctac agctcctacc tgcagccgcc tgtggcggtg 1740
 gtcttcatca tgggatgttt ctggaagagg accaatgaaa aggggtgcctt ctggggcctg 1800
 atctcgggcc tgctcctggg cttgggttagg ctggtcctgg actttattta cgtgcagcct 1860
 cgatgcgacc agccagatga gcgcccgggc ctgggtgaaga gcattcacta cctctacttc 1920
 tccatgatcc tgtccacggg caccctcctc actgtctcca ccgtgagctg gttcacagag 1980
 ccacccccca aggagatggg cagccacctg acctgggtta ctcgtcacga ccccggtggc 2040
 cagaaggaac aagcaccacc agcagctccc ttgtctctta ccctctctca gaacgggatg 2100
 ccagaggcca gcagcagcag cagcgtccag ttcgagatgg ttcaagaaaa cacgtctaaa 2160
 acccacagct gtgacatgac cccaaagcag tccaaagtgg tgaaggccat cctgtggctc 2220
 tgtggaatac aggagaaggg caaggaagag ctcccggcca gagcagaagc catcatagtt 2280
 tccctggaag aaaaccctt ggtgaagacc ctctgggacg tcaacctcat tttctgcgtg 2340
 agctgcgcca tctttatctg gggctatctt gcttagtgtg ggggtgaacc aggggtccaa 2400
 actctgtttc tcttcagtgc tccatctttt taatgaaaga aaaaataata aagcttttgt 2460
 ttaccac 2467

<210> 933

<211> 1529

<212> DNA

<213> Homo sapiens

<400> 933

acgcacaccc tacttctca gcttctcgcc ctccacctgc caacttcctt gcgaggaggg 60
 acctgccgcc agcctgcttc ctggtccgca ggccctgcgc tgaacgctgc cgcgccaggg 120
 gttcaccttg cgccgtcggg aaagcccatg aactctccag aaacggcgta aaggagggtc 180
 ccgccgcggc gcagggtctg ggcgcctggg ttccccctgg gtggagcagc ggcagcagag 240
 cgggaaagtg gtggaggatg atcttgccgc caaaggggac ctcggcgcag taatgtcaac 300

atgatgtttc gctcagatcg aatgtggagc tgccattgga aatggaagcc cagtcctctc 360
ctgttcttat ttgctttata tatcatgtgt gttcctcact cagtgtgggg atgtgccaac 420
tgccgagtgg ttttgtccaa cctttctggg acctttactt ctccatgcta ccctaacgac 480
tacccaaaca gccaggcttg catgtggacg ctccgagccc ccaccggta tatcattcag 540
ataacattta acgactttga cattgaagaa gctcccaatt gcatttatga ctcattatcc 600
cttgataatg gagagagcca gactaaattt tgtggagcaa ctgccaaagg cctatcattt 660
aactcaagtg cgaatgagat gcatgtgtcc ttttcaagtg acttttagcat ccagaagaaa 720
ggtttcaatg ccagctacat cagagttgcc gtgtccttaa ggaatcaaaa ggtcatttta 780
ccccagacat cagatgctta ccaggatatct gttgcaaaaa gcattctctat cccagagctc 840
agtgttttca cactctgctt tgaagcaacc aaagtgggcc atgaagacag tgattggaca 900
gctttctcct actcaaagtc atccttcaca caattgctca gttttggaaa ggccaagagt 960
ggctactttc tatccatttc tgattcaciaa tgtttgttga ataatgcatt acctgtcaaa 1020
gaaaaagaag acatttttgc agaaagcttt gaacagctct gccttgtttg gaataattct 1080
ttgggctcta ttggtgtaaa tttcaaaaga aactatgaaa cagttccatg tgattctacc 1140
attagtaaag ttattcctgg gaatgggaaa ttgttgttgg gtcctaatca aaatgaaatt 1200
gtctctctaa aaggggacat ttataacttt cgactttgga attttaccat gaatgccaaa 1260
atcctctcca acctcagctg taatgtgaaa gggaatgtag tcgactggca aaatgacttc 1320
tggaatatcc caaacctagc tctgaaagct gaaagcaacc taagctgttg tgagtttgta 1380
gcgtattcct tttttttttt ttttttagcat tattctatga atatgattgt caacaaagaa 1440
ttatacatat acacaaatgt acctgtatgt atattcacac atatagacat atatatatat 1500
gttgtcatta aaaagctctt ttaattttt 1529

<210> 934

<211> 2269

<212> DNA

<213> Homo sapiens

<400> 934

caaatagtac agaaaattat aaagttaaaa taggcatctc ttatatctct gtctcccaat 60
ctcaccctgt aggcaatctg tgggatgctg tccccgtgac tccttccagg gatatttttag 120
atcaagtctt cctcttgctg cccaggctgg agtgcaatgg catgatcttg gcttactgca 180
acctccacct ctcaagttca agtaattctc ctgcctcagc ctcccagata gctatgatta 240
caggtgcca ccatcatgcc tggctaattt ttgtattttt agtggggatg gggtttcacc 300
atgttggcca gactggtcta gaactcctga cctcaggctca tctgcctgcc tcagcctccc 360
aaggtgctgg gattacaggt gtgacctcca tactcggcct ttttatttat ttattttttg 420
agatggagtc ttgctctgtc gcccttgcgg gagtgcagtg gcacggtctc ggctcgtgc 480
agcctcagcc tcccgggttc aagcgattct cctgcctcag cctctctggt agctgggact 540
acaggcgtgt gccaccacac ccggcctccc ttcccatitt tttaatgcca aagagaacat 600
attatatata cactttgttc tgtaccttgc tactgtcct tgatagtttg gggaccatcc 660
cttatccctt atcaatatat aaagagcttc tttttcattg tttccccag agatctagta 720
ttccaccaga tatgcctaaa tttatataat ccatccctta ctgatgggcc ttgtagcagg 780
tagacatagt ggggtgaactg tgtctcccaa aaaagtatgt tcaagtccta acccccgaca 840
cctgtgaatg tgatcttatt tggaaatagg gcatttgcag ataatacct cctggattta 900
gggtggggcc taaatccaat gatgggcac ctaataagga aaggagagga cacacatgga 960
aacacaggga ggaggcagag attggcgtga tgctgccaca caccaaggaa tgctcggggc 1020
caccagaagc ctgaagtggc aaggattctg gcctagacc tctggaagga gcatggccct 1080
actggcatct tgatttcaga tgtccagcct ctagaactgg gagagaataa atacattcag 1140
gtggtttaaa gcaccagtg tgtggtcact tgttacagca gccctagcaa gctaatacac 1200
aggtagactt gttttgagac gaagtcttgc tttgttgcca ggctggagtg cagtggcaca 1260
atctcggctc actgtaacct ctgcctcctg ggttcaagt attctcctgc ctgagcccc 1320
cgagtggctg ggactacagg cgcattccac cacgcccagc taatttttag aagaggcggg 1380
gtttcacctt gttggcccgg atggtcttca tctgttggcc tcgtgatcgg cccacctcag 1440
cctctcagag tgctgggatt acaggcgtga gccactgcac cccggccagg tagacttcta 1500
agatggctct caatgatcct tgcctcctgg tatccacacc ctccacttag tgcggacagg 1560
acttgtgact tctactctga agaccagcc aagggatggg atcatttctg gaattaaaac 1620
tatgactgct atcttgccac aatcacgttt gctggcttca atgaagcaac tgcaaagatg 1680
tgaactatgc agaggcctac gtggaaagaa aatgagagt acctctgtcc aacagccacg 1740

aggaacagaa tcatgcccaa aaccacgtga gcgagcttgg aagcaaacgc tttccctgct 1800
gggccttaag atgacagtgc ggcctcgact gacaccttga ctgcagcctg tgagaggcct 1860
gtgaccacagc tgagctgcac cagattcctg accacagaag cggagatgac aaatgcaggt 1920
cattttgggc ggggtgtggtg gctcatgcct gtaatcccag cactttggga ggctgaggtg 1980
ggcggatcac ctgaggtcag gagtttgaga ccagcctggc caacaggatg aaaccttgct 2040
tctactaaaa atacaaaaat tagccaggca tgggtggcggg agcctgtagt cccagctact 2100
tgggaggctg aggcaggaga atcgcttgaa cctgggaggt ggaggttgca gtgagctaag 2160
attgcaccat tgcactctag cctgggcaac aagagtgaag atctgtctca aaaaaaata 2220
aaaatacaaa taaataaagt acctacttac aggccttgta tggttggct 2269

<210> 935

<211> 1989

<212> DNA

<213> Homo sapiens

<400> 935

gcagagtggc ctttctccg gctctggagg acagacgtcc gggctcgcgg tgtcacagag 60
gggcccttcc tccggctctg gaggacagac gtccgggctc acggtgtcag cagagggggc 120
cttctccgg ctctggagga cagacgtccg ggatcgcggt gtcagcagag tggcccttcc 180
tccggctctg gaggacagac gtccgggctc gctgtgtcac agagtggccc ttcctccggc 240
tctggaggac agacgtccg gctcccgggt tcaacagagt ggcccttcct ccgcctctgg 300
aggacagatg tccgggctca cgggtgtcac gagtggccct tcctccggct ctggaggaca 360
gacttccggg ctgcggtgt cacagagtgg cccttctcc ggctctggag gacagacgtc 420
cgggctcgcg gtgtcagcag agtggccctt cctccggctc tggaggacag acgtccgggc 480
tcgcggtgtc acagagtggc ctttctccg gctctggagg acagacgtcc gggctcgcgg 540
tgtcagcaga gtggcccttc ctccagctct ggaggacaga agtctgggct cgcggtgtca 600
cagagtggcc cttctccgg ctctggagga cagaagtctg ggctcgcggt gtcagcagag 660
tggcccttcc tccggctctg gaggacagac gtctgggctc gcggtgtcac agagtggccc 720

ttcctccggc tctggaagac agacatctgg gatcacggtg tcagcagagt ggcccttctt 780
ctggctcttg aggacagacg tctgggatca cgggtgtcagt agagggggccc ttcctctgga 840
gcctctagtg gggaacctgt tagttgcatc ttttggcttc tggtaggctgg tgtttctttt 900
ttcttttttc atcttttttt tttttaattt aattagagac agggctctgcc tgtgtagccc 960
aggctgggtc caaactcctg gcctcaagca gtcctcctgc tctgtcctca caaagtgtg 1020
tggttacagg cgtgagtcac ggggccccagc ctgttgggtg ttcctgactt gtggcccat 1080
cactgcagtc tctgccttca gggtcacatg gccttctcct ctgctggagc atcccctcct 1140
gtaagtttct tttttttttt ttttttgaga tggagcctag ctctgtcacc caggctggaa 1200
tgctgtggcg ggatcttggc tcaactgaac ctccacctcc agggttcaag caactctcgc 1260
gcctcagccc cccaagtagc tgggactacc agtgagcacc actacacctg gctaattttt 1320
gtatttttag tagagatgag gtttcacat gttggccagg ctgatctcaa actcctaacc 1380
ttaggtgatc tgcttgcttc agcctctcaa aatgctggga ttacaggcgt gggccagcac 1440
gcccagcctc ctgtaagttt attgtaaagg cactcatcat gtgatttcgg gcattgctggg 1500
caatctagga tgatttcctc atcttaagat ccctatttta gttacaacaa aaatcacttt 1560
ttctcataat gtcactgttg tggtttgaat gatgggtgtc tctctaaaac tgatgctgaa 1620
actgaatcct caatgcaaca gcattaagag gtggggcctt taggtggtga ttaggctatt 1680
agagctctgc cctcatggat atggttagtg tcttatcaaa tgtcttcggg ggtgagttca 1740
ttccttctac ctctctgct atggaggatg cagcggtcac cccctcaaag gtcttcgggg 1800
gtgagctcat tccttcacc tcctctgcta tggaggacac agtggttctc ccctctggaa 1860
gatgctgcaa taaggcaaca ttgtggaagc agagagcagc ctcacctgcc ccaggtctg 1920
ctgctgcctt gatcttgaac ttcccagcct ctagaactgt gagaaataaa ttccattgt 1980
ttgaaaatc 1989

<210> 936

<211> 2669

<212> DNA

<213> Homo sapiens

<400> 936

tttcaggggg	atgccctggg	taaagtttgg	gtcaccta	atgggccctcta	cttttcaaag	60
tcctcttctc	tgttccagac	cactatgggc	aactctctat	ctattcgacc	tgattccact	120
atgggcaatt	ctacacctgt	tccaccggat	tcctcacttg	gctacatcat	ccaccattgg	180
aatcaatttg	accctgacac	tctaaaggga	aaatgtataa	tttttttctg	taatactgtt	240
tggccccatt	atgagctgcc	cagccccag	caatgggcag	tcagtggtag	ccttaatgat	300
gacaccatcc	tgcaattaga	cctactttgc	aagaggctgg	gaagatggtc	agaagtccca	360
tatgtacagg	cttttatcaa	aatatcaaaa	acctaacaat	ctgtgaaact	cccagaaccc	420
accccccaaa	ggaaagtact	aaggcagaac	tagatattat	agatgaccct	cttttacaag	480
ggctagctgt	ctctcagggt	gaacagcaac	catccccata	aagccccttg	ccaagtgttc	540
ctgaggctaa	aaccaggag	caaacaccag	ggaccctact	aaatccccct	cacacttgga	600
gaggaatgcc	atattcaatt	ctctctccag	ccctgctacc	tcttagggaa	gtagcaggaa	660
ccaaggggcc	agtcctagt	gagggccct	tctctataat	ttatacatac	aatataagga	720
aaagctagga	aactattctg	agaatcctaa	gaaacttgca	gatgggttcc	agcgtttgac	780
cttagcctct	gatctatcat	ggagagatgt	tcaattcatt	ctagcaacct	gttacacacc	840
ctcagaaaag	gaatgaatct	ctgaggccgc	ccacctgcaa	gcaatgaatt	atttgcccaa	900
aactctcagg	gcaatcatcc	cggcccagac	acagttccca	ctattgatca	taattgggac	960
tataacactc	ctgaggaaat	gaacaaccgg	gctaaatttc	ttgaggctct	ccttggagga	1020
atgagaaagg	gaataactaa	aggcagtaaa	ttatgataaa	gtaaggagg	ttacacaagg	1080
caaggaggaa	aatccagcca	tgttttatgg	caggctggag	ggagacttta	aaaaatatac	1140
taatctggac	ccttctctc	ccgaaggcaa	aatattaata	gcacagcatt	tcattagcca	1200
atctgcccc	gacattagag	ataagctcca	aaagctacag	atggggccac	aaactaatca	1260
aatcagctt	acttatatca	catttatgg	gtataacaat	cgtgacctga	aggaaggaaa	1320
aagggaacag	agtaaacaaa	atggcaagcc	aaaagtatgg	cagccatcat	tgacgatgcc	1380
ctgaatgtac	aaagagtgtc	taagggaaac	ccgaagggcc	ataaagataa	tgccagcaaa	1440
ggctcttgct	tcaaagtcaa	gaaaagaaga	cattgggcaa	aggattgtgc	taagtccccg	1500
ccaggccct	gccgtcaatg	caagggcacc	agtcatgacc	cctggcactg	gagaattgac	1560
tgcccatgtt	cccactgagg	ggctcagtca	gtcaaaactc	tagcagtgca	aaaggaggaa	1620
ttagatgaag	actgaagggg	cctgagggtct	tcctcactgc	ccctgttcag	gaacattgta	1680

attactactg aggagcccca ggtaactctg gacgtcatgg gcacccaaat tcagttttctt 1740
tttgatgcag gagcaaatta ctctgtttctt actgcttatg cagtaaggcg ttcctcccag 1800
tccacaagtg ttatgggaat agaatggaag ccacaaacga gtttttattt tattttattt 1860
tattttattt tactttaagt tctgggatac atatgcagaa tgtgcagggtt tgttacatag 1920
gtatacatgt gccatggtgg tttgctgcac ctatcgaccc atcatctagg ttttaagtcc 1980
cacatggatt aggtatttgt cctaattgctc ttcctcccct tgccccaac cccccaacag 2040
gccttgggtg gtgatgttcc cctccctgtg tccatgtgtt ctcatgttcc acctcccact 2100
tattagttag aacatgcggt gtttggtttt ctgttcctgt gttagtttgc tgagaatgat 2160
ggtttccagc ttcattccatg ttcctgcaaa ggacatgaac tcattctttt ttatggttgc 2220
gtagtattcc atggtgtata tgtgccatat tttctttatc ccgtctatca ctgatgggca 2280
tttgggttgg ttccaagtct ttgccatggt aaatagtgtt gcagtaaaca tacatgtgca 2340
tgtatcttta taatagaatg atttataatc ctttgggtat atatccagta atgggattgc 2400
tgggtcaaat ggtatttctg gttctagatc cttgaggaat caccacactg tcttccacaa 2460
tggttgaact aatttacact cccaccaaca gtgtaaaaat gttcctactt ctccacagcc 2520
tcaccagcct gtttcctgac tttttaatga tcaccattct aactgggtgtg agatgggtatc 2580
tcactgtgat tttgatttgc atttctctaa caacaagtga tgagcatttt ttcatatgtt 2640
tgttggctgc ataaatgtct tcttttgag 2669

<210> 937

<211> 2307

<212> DNA

<213> Homo sapiens

<400> 937

aaaaatattt ttcccagacg cggaggttgg ggtcatggcg ccccgagcc tcctcctgct 60
gctctcaggg gccctggccc tgaccgatac ttgggcgggc tcccactcct tgaggatatt 120
cagcaccgct gtgtcgcggc ccggccgcgg ggagccccgc tacatcgccg tggagtacgt 180
agacgacacg caattcctgc ggttcgacag cgacgccgcg attccgagga tggagccgcg 240

ggagccgtgg gtggagcaag aggggccgca gtattgggag tggaccacag ggtacgcaa 300
ggccaacgca cagactgacc gagtggccct gaggaacctg ctccgcagat acttgagaa 360
tgggaaggag acgctacagc gcgcagatcc tccaaaggca cacgttgccc accaccccat 420
ctctgaccat gaggccaccc tgagggtgctg ggccctgggc ttctaccctg cggagatcac 480
gctgacctgg cagcgggatg gggaggaaca gaccaggac acagagcttg tggagaccag 540
gcctgcaggg gatggaacct tccagaagtg ggccgctgtg gtggtgcctt ctggagagga 600
acagagatac acatgccatg tgcagcacga ggggctgccc cagcccctca tcctgagatg 660
ggagcagtct cccagccca ccatcccat cgtgggcatc gttgctggcc ttgttgtctt 720
tggagctgtg gtcactggag ctgtggctgc tgctgtgatg tggaggaaga agagctcaga 780
tagaaacaga gggagctact ctcaggctgc agcctactca gtggtcagcg gaaacttgat 840
gataacatgg tgggtcaagct tattttctct gggggtgctc ttccaaggat atttgggctg 900
cctccggagt cacagtgtct tgggccgccc gaaggcccag ctctgagtg tctctacctc 960
tcaaacaagt attctcatcc aggagcaatt ttcccaccag aggacattag ctatgtctgg 1020
aaaaatgttt tgttgccatg actggagtga ggagaaggat ctaccagcat cttgtgggga 1080
atgaccaggg atgctgaaca tcctgcagtg cacaagtcag ccaatcacc cacataacag 1140
ataattatcc agccccaata ccaagattgc caagggtgag gaggcctgcc aggactttct 1200
ctcccttaga tacaagcttc cttgaactga gggacacct gaaggaaaag tgtggtccca 1260
ccccagtcac ctctcccttc cctggagctc catctgtatg cctgtagtgc ttaggcctgt 1320
aacctggggg ccaggaaccc accttcccat gagactgcat gcagaagtga tgatatgtgc 1380
acacatgact tcattacagg gcattggata ttgatattca tcaggtcagc tggggcccaa 1440
gacactactc ttctgccaac aggccgcaat cctctgcatt agagagaggg taaagattga 1500
gggaggccct aacttcaaac ctctatcac tgctagtga gtgccaaaaa gaagtgaag 1560
gtcatctgcc cttgtaggaa ccacacagga aggagagtg tccaccaatg tcaaattcca 1620
tcaaagaaat aatattttga caaaaaatgc aagtcacctt tctaagtccc agacagcagc 1680
tcaaaataaa aagcattaaa cccctcaaat cttagaccag gtgaaattat tgaagctgca 1740
gtaaggctct gtgggacctg cagttagaga gaagggacaa ctcaatttgg gactgcagca 1800
gaaacccta catcatgggg ttcttgaag ggacctctc cttcagcga cgcattgtga 1860
ggccatttct aggtaaaaag gtagaatttc cttggattcc tgaggtttat ttacactta 1920
ctgcttattc tttgacttta tagaagccaa cttcagtttg aacatcttgc aattaatttt 1980

ttttggctct aagtggagag tttgaacttg tttctgaaga aaaccagggg ctccttatgt 2040
gagcaagcaa ccctccctgt ggccccctta tgcaataaac ataagccatt gtgagccagc 2100
aaaattttaa gcaaggaaag cagtaaacc cccatttcag catgtttcag cctgtctagt 2160
gatgttctag tcttgccctca ctcttaacat tttaaaattt ataattttat ttgattttga 2220
tttaataaga attcatatgt attcatttct tttgggtttg tcaccaaaaag cctcctccaa 2280
tcacctgtgg agtaaagaca agtaaat 2307

<210> 938

<211> 2026

<212> DNA

<213> Homo sapiens

<400> 938

atttcaatcc tcagccctcc agggatccga agcagggtccc ggggagttag ctgactatag 60
gtcaaagagt cagcattggg gatggtttgt ccagtcaatg gacaactctg agggagaagg 120
gccagtagag ggtggggccc tggccctgag catcctgcag ggctcagcgc gggcctgacg 180
acaccctccc ttgaccctcg cggggtctcc tttggtagct tctgcccagc gggggtcaag 240
cggggtggag cggagctgct gggaggctgc tggataggag aggggtcacg gctgcggaag 300
aggaggttct tcgggacacc cgtggatgga cacggcaagg aaagagcaag gctcaggatg 360
atttatcctc ttttactga tgaggaatct gagggccaga gaacagtcac gaagtgtgat 420
cagaccctga ggtctccaaa aagataatgt ccttgcgaac tccagggatt ctggcatctt 480
gctgtacca cccagccca cacggcagga tcctatccaa gtcccttate caccgagaca 540
ctcactttag cttttacacc ctcaaggctg agaccctaag gacacgccct ggatccaagg 600
agtccttggc ccctctgcta atatgcgcca cctggactcc cagagggaaa gccggtcagc 660
acccacatg cattagcacc atgggccacc cccaagccct accccaggag aagctcgtgg 720
tggcaaaaag aacctaagca tttgaggcag gtcaccaag cttgaatctc agtctgcctc 780
tcactgtga ccctggcgag ccactcgctc tcaggaagcc ttcactttcc ctagtgcacg 840
gcgggcacac agctcaacgt gggactgtga ggatgggaaa tgaggggtgc catgcaccct 900

ggaggaactc agtgaacagt ggcaactgtc acttccctgg ggccctatgg tccttccttt 960
 ctccccagcc tgtccacact agcatcttcc tcaactcctg gttttcagag ggaaacactt 1020
 atcgggtcatc tgctccacag gaaacaccag gccaaaccaca gctgggggata aaatagcaca 1080
 accacaccct gccgtccagc gcctcccagc ctgtgccctt tcctagtacc accagcaacc 1140
 atcaatccccg tctcctcctg cctcctctcc tgcaatccac cccgccacga ctatcgccat 1200
 ggagcccctg atcgagaga acttccgctt cctgtcactt ttcttcaaga gcaaggatgt 1260
 gatgattttc aacggcctgg tggcactggg cacgggtgggc agccaggagc tgttctctgt 1320
 ggtggccttc cactgccctt gctcgccggc ccggaactac ctgtacgggc tggcgcccat 1380
 cggcgtgccc gccctggtgc tcttcatcat tggcatcatc ctcaacaacc acacctggaa 1440
 cctcgtggcc gagtgccagc accggaggac caagaactgc tccgccgccc ccaccttctt 1500
 ccttctaagc tccatcctgg gacgtgcggc tgtggcccct gtcacctggg ctgtcatctc 1560
 cctgctgcgt ggtgaggctt atgtctgtgc tctcagttag ttcgtggacc cttcctcact 1620
 cacggccagg gaagagcact tcccatcagc ccacgccact gaaatcctgg ccaggttccc 1680
 ctgcaaggag aaccctgaca acctgtcaga cttccgggag gaggtcagcc gcaggctcag 1740
 gtatgagtcc caggtaagga gctgtgcaaa gggaagctcc tcttccttag tgggtggctgg 1800
 tgagaggtcc ggggatggcc tagtgctaaa gctgggggtg gtcctcaggg gctgaggtct 1860
 gtgggaaagc actagcgtaa ggtatcaggg ctggttaact ggtgcatggg ggggcaaggg 1920
 ccagttccag acacaaataa gacagtttta tcaatttttt tttttactgt aaatctcagt 1980
 tgtatatgac caaattagtt ttaaacatta aaggaacatt cttctg 2026

<210> 939

<211> 3319

<212> DNA

<213> Homo sapiens

<400> 939

cgagtcggcc ttgttcgcct actggctcgc cagccgcggg ttcgggcgtc ttcggaccag 60
 cggggcgccg caggccctc gcagcgtccg tcggcaggcg ggcagacggg cgggggagtc 120

gccccggcgg ggcaagtccg taccgcgaca tgggcgcgcc gagcacgtcc gtaccgcaag 180
atggctgctc ggacggggac agagctcgcc tctgccgctt cgacaactgc tcctgggtcc 240
tctaagagga ggaagcgcca cccatggcac acagtgtccc gtcggacagc agaaccagcc 300
gtcgtccac gacacgaccc catgccgccc gcggggcgcc ccggggctcg cgtcggccccg 360
gccgtacgcc aaaatggcgg ctcccgcgta tttccgctcg cgcgccgtat cgtcttcgcc 420
gcctgcgccg gcacacctat tggccccgc ggcgctccgt cgccgcgtcg cgttgctggc 480
ccgtcggagc gacgccgctc gggtcagtcg gcggccggac tgggaagatg gacgcagcta 540
ctctgacctc cgacactctc cggtttgctg agtttgaaga ttttcctgag acctcagagc 600
ccgtttggat actgggtaga aaatacagca ttttcacaga aaaggacgag atcttgtctg 660
atgtggcatc tagactttgg ttacataca ggaaaaactt tccagccatt ggggggacag 720
gccccacctc ggacacaggc tggggctgca tgctgcggtg tggacagatg atctttgccc 780
aagccctggg gtgccggcac ctaggccgag attggagggtg gacacaaagg aagaggcagc 840
cagacagcta cttcagcgtc ctcaacgcat tcatcgacag gaaggacagt tactactcca 900
ttcaccagat agcgcaaatg ggagttggcg aaggcaagtc cataggccag tggtaggggc 960
ccaacactgt cgcccaggtc ctgaagaagc ttgctgtctt cgatacgtgg agctccttgg 1020
cgggtccacat tgcaatggac aacactgttg tgatggagga aatcagaagg ttgtgcagga 1080
ccagcgttcc ctgtgcaggc gccactgcgt ttctgcaga ttccgaccgg cactgcaacg 1140
gattccctgc cggagctgag gtcaccaaca ggccgtcgcc atggagacc cttggtacttc 1200
tcattcccct gcgcctgggg ctacaggaca tcaacgaggc ctacgtggag acgtgaagc 1260
actgcttcat gatgccccag tccctgggcg tcatcgaggg gaagcccaac agcgcccact 1320
acttcatcgg ctacgttggg gaggagctca tctacctgga cccccacacc acgcagccag 1380
ccgtggagcc cactgatggc tgcttcatcc cggacgagag cttccactgc cagcaccgc 1440
cgtgccgcat gagcatcgcg gagcttgacc cgtccatcg tgtggggttt ttctgtaaga 1500
ctgaagatga cttcaatgat tgggtgccagc aagtcaaaaa gctgtctctg cttggagggtg 1560
ccctgccccat gtttgagctg gtggagctgc agccttcaca tctggcctgc cccgacgtcc 1620
tgaacctgtc cctaggtgag agctgccaag tccagattct tctgatgtag agcgactgga 1680
aagattcttc gactcagaag atgaagactt tgaaatcctg tccctttgaa aatcctgggg 1740
tcgggggtgg cacctgtgag agcctggggc tcctggtgcc gctgcgtttc atccatcccg 1800
cccgtcgcgc tgccgagggc tgcgccccgt gctgcctccc cccagagggc caccgctgt 1860

gctcgtggac tgaggctgcg ctgcccggga ggccttactg cttggtgtca gactgcccag 1920
 ctcagagtgc ccgtcagggc ctgtgcatcc gcacgcggag ccgtctgtta ggagcttcca 1980
 gagtgttctc tcgacactgc cagccccgtg ttagcacctg ggcctcagtc ccacttgctc 2040
 ccaggcgccg gttctgtggt tggtttggaa ttaaagtcct gtttgaagtt gtcagacaca 2100
 gacatgaatt tctgggcgct ccctgagtca gagtctcaga agacctgtgc aggctggcgt 2160
 gagaggagcg gcagccacac tgcggcccca cgccaagga ctgggctgct ctcgaggggg 2220
 gcgcgcccac cgctgtgtcc tctctgccc gcctggctta ccaagggcta cctcagtggg 2280
 agatgagggt ggaggaacga aggcgagggt cctccttgct ttggggagaa aagtattcag 2340
 gaagtgggtg tgtgggaaac ctgaagatgg cgtgcacagg acacagcgtg ggcggcctgg 2400
 gcagaagggc ggctggctgt cctggagctg ctgctggagc ctgccctcag agtgtccctt 2460
 tccagtgtg tggcattctg tggcagcttc cccaggtgtg gtgacggggg gggggcgggg 2520
 cctccacctg tgacagccag gcttgagggt ggacggcgtg cctctcccag gaggcttccc 2580
 catgtccttg ccttgctgag aattgccctc ccatgccgct gaggtgttag gtggtttagg 2640
 gccaaaaggg gaaaaccact tgagtcttgt ggtgtgtggt gggcagacac cacagggtgg 2700
 catcacctgg tggcatttcc agaacctcag ccccgattcc agcaccacc accgcctgac 2760
 cctgtgtaac ctgctgtccc gggctcccaga gtgcactctg ccccgctgct ctgctgcctg 2820
 tcctgggaaa gtatctttgc cccactagga aatgtaaaca ggagggttg gggagcgtgg 2880
 gcacttttct catgagcagc tactgcggcg ttggcaggac tcgctgctgc tgctgctgct 2940
 tgtgtaggtc ggggagccag agatccccga ggacgcgcgc cggacagtcg gcactgaccg 3000
 gcccacctgg tagcagagga cacccccagc cccccaagca ttgaagacat agtgtatttc 3060
 ctcgtatcct ttctcccttg ggtgtagttg ggggtgggaa gcagggaagg ctggtgcgat 3120
 ctccattcct tgggctccac gtccgagttc atggtgcgcc gctgtgctgg gagctgcagt 3180
 ggtaatgtgt gggacacctt gaccaaaggg gagctttgtc tcgtgtgttt tgaaaaaggc 3240
 ttaatgaaga gaatgttgtt cattcttagt agtatagttt gcaattctta atggcaaata 3300
 ataagtttca gtagaaaac 3319

<210> 940

<211> 2654

<212> DNA

<213> Homo sapiens

<400> 940

```
gcacgcgcac cggggcctca gccatggcga ccgtgctgtc cagggcgctc aagctgccgg 60
ggaagaagag cccagacctt ggggagtatg atccacttac ccaggctgac agtgatgaga 120
gcgaagacga tctggtgctt aacctgcaga agaatggagg ggtcaaaaat gggaagagtc 180
ctttgggaga agcgccaaaa cccgactcag atgtgagggt tgcagaggct gcaaagccac 240
atctttcaga agtcaccacg gagggctacc cctcagaacc ccttgggggc ctggaacaga 300
aggcggcctc ctccctggtg tcatatgtgc gcacgtctgt cttcctgctg actttgggga 360
tctcgatgat cctggtgctc ctgtgtgctt tcctgatccc ctgtcctccc agagatctgc 420
acagcacctg gagccgccac ttgggctccc agggaggtgg ggacctgtct ccattggaat 480
tggctgatgt gaatggagat ggcctgcgtg atgtgcttct ctcctttgtg atgtcaagga 540
acgggagtg cagtaggtgtc tcaagaccag ctgctaattc tgtgtgccct tcggggatga 600
atggcagcac actgtggtct agtcttctcc ctgaggaggc tcgagatatc acatgtttgg 660
agctgatgcc aggaagcttg gctgaaacca tctgccttgt gacagggaca cacaagatgc 720
tcagcgcatt caatgcaacg tcagggaag ccatttggac tttaaacca aactacttgt 780
ccaacggtac cttggctgcc ccagttgtgg tactgccaga cttggatgaa gacggtgttc 840
gagaccttgt ggttctggcc attggggaat tgcagccaga tctgtgcttt ctgctggtgt 900
ctggccggac cggaaatcca gtgggtcgac ctgtgaagta caacatcggt ggagttggga 960
atctgattgg tcctcaggtt tacatcacca caaatggggc tgtctacatc ctgtttggct 1020
ttggaaatat acaagctgtc gcactgcggg acatttttgt tcaggcccaa aatcgagaca 1080
gctcaccacc ttctctgcag atagaagagc cagaatggga aaagcgaaga tccatcaacc 1140
tgtctgagct cattgatgtt tacagtgatg gtgttgaact actccagatg gtgaaggcac 1200
cagattccaa ctgcagcaac cttctgatta caaccagaca aagccttgtg ctgcttcggg 1260
ggcaaaatct gacaccttac tgggcattga gacttcaagg cctgcgcagc cagcctactc 1320
ctggatattt cactgatgat cagacattag acttccttct gcagatacag gatggagttg 1380
ggatgaaaaa gatgatggtt gtggatggtg actctggctc cattgtttgg agttaccgtg 1440
ctccgtgtca catgaaagaa acgccagcca cctcagcagt tacttcagac cagaagtctg 1500
```

tcttcctctt ctgggccgaa gggctgtcag ctgcatctcc caattccgat atcatcctag 1560
gaactgagcc gccagcctt caccaccttt acctcctgca tcctgcgttc ccctccatcc 1620
ttctggatct ggccaacacc accggcacag tgacggcttc agaggttgga attaacgacc 1680
tctggaaaga tgccttttat gttaccagga caacagggcc aagctccgaa ggccatccag 1740
cagccctggg ggtcagcaag cttagtctac ggtgggcact aatggagggc cagatggctc 1800
agctacagga gtccacccc aaaattggcc gtggggagct gcgaagattt ctctctagga 1860
taaagtttgt tgaagctccc tacgagatct aatctgatgg aatcttcagt tgcagaagaa 1920
gtgaacagag tggataccct ctctactctc ctgtcactgt aaaatcagtt ctatggagag 1980
aagacttctt cgtcctcatt taccacctcc ctgatggttg caaaggcttg ggaaggcatg 2040
ttggagtctt tgacggcagc atgatctatt tggctggggc atcttaccta ctttttcagt 2100
ccctgcatta atcccccta ggaactctgc gtggatcggt tggaaatgtg aatctcttaa 2160
gtatttaatt tttttgccgg tacagaaagg tgtaagtggg ggctgaaaat tgaggaagct 2220
tcatctgacc aatgtgggtg ctggtttctt gtgaaatgtg tccctaagcc tccttctcct 2280
tgcaggcagc caccaccca ggtgtctaag ataggacatg ctcccttctt tctctaatac 2340
catcctgagg ttgccggcaa agccaatatg accactactg agaaatagta atgacttcta 2400
caaatgcaag ggtcttacct tcctctttcc cttaaacacc ctcccttttc cttagacccc 2460
gtttttgcc tccccaaat gtgtggcatg gtgaaactaa tcccctgaat gtgaattgct 2520
atccttattg ccctattaaa gaagagccag ctggtatatt gtcaggaagc actattttaa 2580
atgtgaactg ttatagagta aataaataaa tactctacag gaaaaaaaaa aaaaaaaaaa 2640
aaaaaaaaaa aaac 2654

<210> 941

<211> 2274

<212> DNA

<213> Homo sapiens

<400> 941

gcatttgtgc ctgaagctgc cgggtctgct acggcaccgc ggggctgcag aaaccggggg 60

gccaaagggcg ggctgcttgc cgctatggct ggcagtcagg acatattcga tgccatcgtg 120
atggcggatg agagcagaaa gatgaaggctc ttagaatcat tgattggaat gatccagaaa 180
ttcccttatg atgaccctac ttacgataaa ctccatgaag acttagacaa gatcagagga 240
aaatttaaac agttttgttc gttactcaat gttcagccag accttaaaat tagtgcagaa 300
ggttccggac tttcattttg aggaggatgg atgaacagag accgaacgtc gaggaacaga 360
tgtgtgtgtg acgtgtttag aaatgcggtg aagggccaga cgggtgctggg aaggcagttg 420
ttcattggga ggggtgagggt tccggttcgg ccgtgggagg gcttccttcc ctggggtttt 480
ctgcctgtgt caccttggtg cccgtcttgg ggccctgccca cacatgccct ttgttgggct 540
gaagccgtcc ctggcagagc cctcgtgcat tgacttgaca gcctctccgg cagcacaggc 600
ctagctggtt ctgggttga gttggctctg gatagggtca gtcaccaggc ctggactgaa 660
ggcagttatt tttattatta ttattatttg caatgagaga gatggttggc cccgaatgag 720
gctcatggga ggtttggacg ggtgctgtgc cgcatgtcga ggccgattgt gtgccaggcg 780
gtgcgggacg tgcctcccgt gtgttattta atcccttcag gagcccacaa gatgggtgtt 840
attctcattt tacagaggag ggaggggaga cgcaaggga ttgcctggtc taagggcacc 900
cagcagcaga gctaggactt ccgccctaag gctgtgcctc actgccacca ggcacagccg 960
cctccggaat gcacaggcga gtccctgccc tccctcccag gccgcacagg tcctgccaaag 1020
cctcacggag cacgggggag tctgtggtgg ccagtttacc tgggcatctg gctgagagga 1080
agaaaggcca acctgatcct gaggggaccc agacatatcc tttgcaactgt ccctagaggg 1140
gcgatgagct ttgcagcatt aaaaaatggt gaagggggga aatattttga accaaagacc 1200
aaatgttagg ctgccgttat atttgcagaa gctttgagaa ccatgcgtat agcctcctgc 1260
attctcccct ctcctaggag ctcttttgtc tctgtcctta cgaggcgtca tacagaggca 1320
gtgggggtggg cacagatgag cagagtggat ggttcggtgg gtccccacga ggcgagtgg 1380
ggtcatatgt gatggcacgt gttcacacac cctcctgtgt accccccag ggtcaccgaa 1440
gtccccacac gctggctctc cacaccctc ctgttcaga aagcatgtcc gaaagcagtc 1500
caggagatta ttaaggggtc gccatgaatc cactttggtt ttaaaacat tcccgaatgt 1560
cctagtggat tgtgttgtgc tgcctaagct gccggctgca ggagccagag aagtgacccc 1620
cgcgggagca gcggcaggtg gatctccacg gtggctcgct ttgtttttgt tttgtttttt 1680
cttttaagac ggagtctcac tctgtcgccg agtttggagt gtattggcgc gatctcggct 1740
cactgtaacc tccgcctcct gaattcaagt gattctcctg cctcagcctc cctagtagct 1800

gggattatag gcgcccccca ccacgccc aa gtaacttttg tatttttagt agagatgggg 1860
ttttgccttg ttggccaggc tggctctgaa ctcccagcct gaaatgatcc acccacgtcc 1920
acctacaaa gtgctggaat tgcaggcatg agccaccact cccggcctgc tttttgtttt 1980
tgaagacagg acttaggtct cctcctcccc aactctaaac ctgctgtgtg ggctgtgcac 2040
cgctcgtttg tagcgtcacc tcaggtctgg ggaagtctgt gctggcatct cctcattgtg 2100
ccttcatcag agctggtgcc ttcgggccag aaagactctc gttctttcta gatggtggga 2160
tcaggggcct ttgctgtgtt tcccttggtg gatttttgtg ttttgtaagt tgtctatttt 2220
gataatgtat tatttttata actgtaaaaa aagtaaatag catattttta agtg 2274

<210> 942

<211> 2924

<212> DNA

<213> Homo sapiens

<400> 942

ctgacacagg acttaggtgt cccctttcag gccagcaggt aggttctcct gagctcttcg 60
gggctgtttc tggctctctc tgccgggtgc tgagttgttt gctgggcact cacctggtca 120
tggggagaca gaacttgcag ctctctcccc accccttgat cagctcacct cataacagag 180
atcagctgga caagctggga gtcctcttcc ctccatgctg cctgggagta acctgaaccc 240
ctgccccctt ccaggcccc ctccgtgaaa gcgctgcctt tctcctgccc ctgcagcggc 300
ctgagggtt tcagctgtgc tggggaacag tcctgcagac agccacagcc agaacgtccc 360
ttctgcccct gagagtgage atggccatta aggaaatc c gatgcattg atcaacatgt 420
ttgtccattc agcagatttt actggcacct cctgcatgtc agaccctt tctgggtggt 480
ggggagtga ggatgagttc agcctcaacg agatctgctg cctctgtgga cctgacagcc 540
ccaggaagag acacacacgc acagtcccc atcctgagga ggaacgagca cttcagagcc 600
gtgcacgcca gccaggccat gtggagagga gggggctcca ctgggagggg ctgaggacct 660
tccacagggt ctgtcgggca gcttaccttc caggtgggtc cgtcttggca gggagaggaa 720
tgagagagcc gtgcacacca gccaggcgt tcgggaggag cagcacgcaa gttagaaagt 780

ccccagtgcc gctgtccgta tgagcttctc tccagctcat tttcccatc tgtccagcgg 840
gatctcgctg cgtgggacca atgcaaggat aggatgagat gtgcatgtga gcaagcttgt 900
taaataattaa ctagtacttt gtgcgtggcc ttccacaaca gtcccctcgt gtgcacaggc 960
agggtctgag cagagggagg gctttgtgga ttccaaaggc caccaggccc ttggcaggca 1020
actgcagctc gccacctccc tcaccgaccg gtcagctttc caacaccaac actgaagagg 1080
tgtgggagtt ctgtgccagg agctcccaga gcagcttcag ggagagtgtg gggccccctg 1140
ggacctgggg catctttgcc caccttagga gtgctttgtc catctggaca agctaggctt 1200
ggctcactgc caccctctt tggctcagct gtccccgggc agtggtgccc aggctgcctg 1260
acattgcagg ggtgtggaca gagcccttgc cagggaatcc ctaccccagg attctggtgt 1320
ggcctccgcc tgggtgtgtc ctggttaatt cctgtgccta ctgaaggcct gccccagctg 1380
atctcgctcg ctgcctcct agaccatgct ggccacattg gttctcatcc agtcttctgg 1440
ggtggggacc cgtccaagga caggctggct gtcagtcac tctgcagggc caagcagggc 1500
ctgcaaggac gatgggcaga cacagccgca tcaccaggc aggacagcag gctctggccc 1560
aggagatctg ggggtgaatc ctggctctgc cagccattag ccagagtgga agtgggcaaa 1620
tggattaacg cctccagcac ctggtttctc accgagaaca cagagaaggc tataatctgg 1680
acctggtata atctggactc tgacttaca atctgaatgc caagcaaac ccattcacta 1740
gcgaaaactg actcaggctg aacgtattta ggggcaaac cttaaattgtc gaggctagtt 1800
aaaagtcctg attttctct gttacattga atagtcacat gttcctctga ggaacaggag 1860
tgggtttaat tatggggttc tgccctagac cctgttgggc atgcatgat ccacaccatg 1920
caccacgtgt gcctttgtca tcgaaatacc tgcagttccc aaatacatct ggcctcacag 1980
ggttgttggg gcttaaattg gcaaatacga gtaaagaggc gagagcggag cctgacagcg 2040
cacctgctgg gcagggtctc caaactgca gcattttggg ggaagctctc ctactgggtg 2100
gggtctttgt acagcagcag catttcaagg tgggctgac cttctcatct ggggaagcca 2160
gggctgggca ggtgcctgag cctcatgagg gtctcagctc agatgctggg ccctattctc 2220
cctgctgcct tgggcttgga gatgctcaca ggtgagttct catttgtgaa gaggtctgtc 2280
ttcctgagga agcaggggac cctcacctgt gaaccaagtg tgccatggga gctgctccat 2340
gtccaggctc aggtctcctg gtctgcaggg aacggcacia gagggctggc ctaggccagg 2400
aggatgtgat ctgtcctaga agggggctga cctgcttgct gaccccgtt gctgctgcct 2460
ggctggcctg actcagccac ggctgttccg agggcccttc tgagtacgaa cttccagttg 2520

gaggatctgg gtgaagaccc agctgcttga gatagcagcc tctggctagg cccttggcgt 2580
 ggccaagcca atcaggcagg tttagagcct ggtgccccta gacaggtcct gcaaccaaga 2640
 acaggggtag ccttcaaagg ccagccctgc cttccaacca ccgctccaca gcgagggaaa 2700
 ccaaggctct tagggcagga ggcttgtccg agattagcac ctgcgtgctc caggctctga 2760
 gttctgtccc ctcagctgtc cggcccctgg gtgctcactt taatctcaag tcattcatct 2820
 tactattaaa cgtgagccca gaaatattgt tgtaatggag aacgatgcct gcgagtctcc 2880
 aaagccttcc ctcggaacgg ttccattaaa tctctcctgc tcag 2924

<210> 943

<211> 3000

<212> DNA

<213> Homo sapiens

<400> 943

agcctttgat ggggagagtc tgagatggga cccaggaaca tcaccatgaa gctgtccagg 60
 atggatgtgg gaccctctgt cagaccaggc cagtctctt aatgtaagat cagcaggcca 120
 aggtcctggg atatgggagc tcccaggaag tggactggga tgcctgaggg atccaagaat 180
 tagcagtgtc ctgtgtggtc tcgctgaggg aagccaggca aaatctagcg gctcagctgt 240
 aacagccgga gctcttggct cccaagcaac aggaaacaat tctggcttat ttaagcagaa 300
 aaggacttta tcaaaaggat cttggggaac tcacaaaata accaagaggg ctgaagaata 360
 cagttgggtga gtcgaccaag gaggctgcac agcagtcagg accacagcca aagtcaggca 420
 atccagggat gacctcgtg ccaaatccag gactccctgg catacactgc caccttggga 480
 cgtggatatg gtccctgtcg ccccaggaac tggaatgcca ttgacttggc gactgccacc 540
 atccaccaga atggacttct gtgctccttg catctctgta ttattagttc ccaactccaa 600
 gcctttgatg ggggcatctg atggattgag cctaaggatt ccgatgggtgc ctgttggctg 660
 cttccgtgat gtctggagtt gcaaaatgtg ccagaaagca gaaggatata ccgctattca 720
 gagaggattt tcttagggac ttgaagaaat tgacctcaaa atttcagtag atgagaggac 780
 tgtggctggc ctgtgtcttt ggcaactgggtt gttggagccc aatgaaaaat tctacattga 840

agactaaggg aaaaagaggt ttcattatag agctgggact gattgcattt tcaaaaggtg 900
gctgcaacaa tatcccacac acttttctgc tgtataatct gccacttctc catcaagtag 960
aggagacaat ttctcccctc ctttgaatct gagtgagttc tgtgactgtt ttgactgata 1020
gaatgatgtg gaagacagac tgtgtgacct gaaaggtgag gtcacagaaa gccttgcaac 1080
ttccacctgg cctgtgaaga acacttgctc ttgggatact ctttcttgga acccagccac 1140
catgctgtaa gaagcccaat ctacatgcag acaccacata taaggcatcg tagtcaacag 1200
ccacagttaa gttcccagcc ggcagccaac atcaactacc agtcttgtga gtgagctatc 1260
ttggacatcc agcttgggta aaccttcaga tgactccagc cccagctgac acctgactgc 1320
aaccacatga gaaaccagga atgaaaatcc accagctgag cccagtcaac tcatagaact 1380
gtgagagata ataataagtt gtggtactaa gccactagga ttggggcacc atgcaataat 1440
aggtaaccaa gacagtagca actttgggta gacacatgag ccatgggatg acacataatt 1500
aggtatattt ttaaaaactt ggattcagct ttagggcaat gtgtccctaa catagagagg 1560
cactatttca gttcacatct gctgcctctg atcaaaacac tctcttgac ttccagagag 1620
agagagagag agagcaaagtg tgtgtattta ctgacagggtg tccctttgtg tccccatctg 1680
tgtgactgtg gagctcagtg tctctcacac attctagtat gatacttggg gccatatttg 1740
caggctcctga ggtaagaacc catgctgttg tcttcagaga gtttcatggg ttggactgtg 1800
ccatatatgg gcaaaaatcc acccacacgt tttcttttaa tcacctttat ggatgtataa 1860
tttacatata tacttttttc ttattacttt ttatttatgt aatttattca ttttttgaga 1920
tagggctctca ctctcttgcc caggctggag tgcagtggag tgatcatggc tactgcagc 1980
cttgacctcc tgggcttaag caatcctccc acttcagcca cctgagtagc tgggaccaca 2040
ggcacacacc accactcctg gctaatttaa aaagtgttt tttttttttt tttttgtaga 2100
gacagggtct cactatgttg tcaaggctgg tctcaaactc ctgggctcaa gcgacccatg 2160
tgcctcagcc ttccaaagtt ccgggattac aagcatgagc caccatgcct ggcatctttt 2220
gtggatgtgt aatttacata cgtacaataa tatgtaccta ttttaagtat acagtttgat 2280
gagctttgac gaatgtagcc cacgaaacca ccaccataat cgaagtatag aacttttttt 2340
tttttttttt gagacgaagt ctctctcttg tccccaggc tggagtgcaa tggcatgac 2400
ccggctcact gaaacttccg cctcccaggt tcaagcgatt ctctgcctc agcctcctga 2460
gtagctggga ttacaggcac ctgccaccac gccagctaa tttttgtatt tttagtagag 2520
acagggtttc accatgctgg ccaggctggg ctcgagctcc tgacctcagg tgatcccccc 2580

tcctcggcct cccaaagtgc tgggattaca ggcatgagcc actgcgcccc gcctatagaa 2640
cattttaatc accccagaga tgtgccccct gtgcagccag ttccctcctc tcacccccca 2700
gccccctggca agcattgatt tgctttgcca ctatcaatca atttttgtct tttctggtat 2760
ttcatatgaa tggaatcata taggatagat ttttatgtga ctacacacta ttttagcata 2820
atatttttga agttcttcca tgttggtgtg tataatctata gtttaattct ttttctcact 2880
gaattgtata ccactgtatg atgtatcaca atttgtttat tcattctccc gttgctggac 2940
atttggaactg tttattgttt ggggctacta tgaataaaac tgctatggat gtttatgtac 3000

<210> 944

<211> 3479

<212> DNA

<213> Homo sapiens

<400> 944

aattatcttt cagttcaagt gacaaacgta cctgtgggcc ctggatccag tgctactgct 60
acaaataaga tcactattat cttcaaagcc caccatgagt gtacagatca gaaagtctac 120
caagctgtga cagatgacct gccggccgcc tttgtggatg gcaccaccag tgggtggggac 180
agcgatgccca agagcctgcg tatcgtggaa agggagagtg gccactatgt ggagatgcac 240
gccccgtata tagggaccac agtggtttgtg cggcaggtgg gtcgctacct gacccttgcc 300
atccgtatgc ctgaagacct ggccatgtcc tacgaggaga gccaggacct gcagctgtgc 360
gtgaacggct gccccctgag tgaacgcac gatgacgggc agggccaggt gtctgccatc 420
ctgggacaca gcctgcctcg cacctccttg gtgcaggcct ggcctggcta cacttgag 480
actgccaaca ctcaatgccca tgagaagatg ccagtgaagg acatctatct ccagtcctgt 540
gtcttcgacc tgctcaccac tggatgatgcc aactttactg ccgcagccca cagtgccttg 600
gaggatgtgg aggccttgca cccaaggaag gaacgctggc acattttccc cagcagtggc 660
aatgggactc cccgtggagg cagtgatttg tctgtcagtc taggactcac ctgcttgatc 720
cttatcgtgt ttttgtaggg gttgtctttt gttttggttt tttatttttt gtctataaca 780
aaattttaaa atatatattg tcataatata ttgagtaaaa gagtatatat gtatatacca 840

tgtatatgac aggatgtttg tcctgggaca cccaccagat tgtacatact gtgtttggct 900
gttttcacat atgttggatg tagtgttctt tgattgtatc aattttgttt tgcagttctg 960
tgaaatgttt tataatgtcc ctgcccaggg acctgttaga aagcacttta ttttttatat 1020
attaaatatt tatgtgtgtg cttggttgat atgtatagta catatacaca gacatccata 1080
tgcagcgttt cctttgaagg tgaccagttg tttgtagcta ttcttggctg taccttcctg 1140
ccctttccca ttgctactga tttgccacgg tgtgcagctt ttactcgcca ccttcgggtg 1200
gagctgcctc gttcctttga actatgccct cacccttctg ccctcacttg atttgaaagg 1260
gtcgttaact ctcccttaca ggtgctttga ctcttaaagc ctgatcttaa gaagctctct 1320
tcatctaaga gctgttactt tttcagaagg ggggggtatta ttggtattct gattactctc 1380
aattctaatt gttatatatt tgagcccata cagtgtatta ggttgaacca tagaaactgc 1440
tattctcgta ggtcaaaagg gtctagtgat ggaagttttg tagataagta ccaggcatct 1500
cagtaactcc tagacttttt ctcatcccat gccccgtttt aaattgtcag ttttccctct 1560
gactcttctg tgttaaaaca tgaaactata aatttagtaa ttatcatgcc ttgctctttt 1620
taatctatat gactgatgca agccccctct cttaacctgt tcttggcttt gagcccagaa 1680
acacagctct ccctgtctcc aactccagta agccctcctc agcctcacct tacgaatcca 1740
aagaactggg gtttgtagg ttttttctct aatgtagagg cccagatccc atcacaaagt 1800
ttttcattct tccttgcca ccatgatctt catcacagtc tttgatatgt ctgcatgcaa 1860
agtggaaacag agttgggcgg caatgacaga agagcttctt tggcctgact cgggtgtcgg 1920
ccacttcggc actgcttaat ccagatatct ttgttaacta agcattgtgc tttccagggtg 1980
gtctgaagtc aggtactctc tctctcaaca cctgtagttg aatatgattt ggtcagttgc 2040
tcgttgtaac ttggagaaat tcctataaag taagatctcc ttgcctcttc catccattgt 2100
tggcaccccc ttgcaaaagg aaaagaacag caaaagtcag gagcagtaat ctgagaaagt 2160
taactccagg ataggtaggt ttctattgtt atagctagat gtaaactctt agttccaaga 2220
agtgatagag tttctgcttt aataatttgt tgataagttt acataaacag aaataaaaga 2280
tactatcttt accgtagtag ttcaggccaa gattatgctt agtttttagtt ctccaggtag 2340
ttacttttgc catgtcctat tgatcagtga cactgccaga ggcccatacc ggcaagagga 2400
agaggacgtc attttgtaaa gtttaacttc ttagcgaact gatgtgccac ccagtcacag 2460
agtggagttg tgaattcatg tagagggtggc aaacctctac cttgtgttga tgagagaata 2520
atcttgggca gtctgggaaa ataaggaagg catctccttc ttactcatgg agattcaact 2580

atagagagtt gaaacctaaa cccgccttcc ttttatagaa gctggactag agacggactg 2640
accatcagct ctgaactgtg gctttttttt gttcacctat gatgccatgt accaaattca 2700
gaagctatcg ttaataattt gttttataat tgagtagtac aagcgaggaa aaaatacgga 2760
ggataaccac tatTTTTgtg caaatagtat gaaagtgaag taaaagcaat agaagaaatt 2820
tctataggat ctgggttttag agtgtgtatc attaataaat atacctttgc tcttttcagg 2880
gaaaataaca accaccctta ctgatagtgt ggaaaagaag attgggttat tttgccatat 2940
catttagctg gaagtgcacat ttaaaagcac cctgcacac tagtaatagt gtattttgct 3000
attctgccct tgtaatcggg gtccctgtaa aacaatcccc acagattact ttcagaaata 3060
gatgtatttc tctacgtaag ggccagggtt attttctcct tttttgagat ttctagaaaa 3120
aatgctgctt gcacatgttg gttcttgaaa ccttagctag aagaatttca ggtcatacca 3180
acatgtggat aggctatagc tgttcagagg tctcctgggg gagcttaaaa cgggggaaac 3240
actggttttc acagatgctc cacatggctg tctttaaaag actcaaaact tttttttgtc 3300
ctctttgtta tgcttggaag ctcccccccc cccccacagt gtgtcgagtc tttgcaaaga 3360
aacctttaga tgtggttcat agatatatga atacgtatct gtgtaaaaca gtgagtgtgc 3420
agtgtgtaaa tactttaaat tattatgcta gaaaaataaa gttacatacc ttgctgtgg 3479

<210> 945

<211> 3218

<212> DNA

<213> Homo sapiens

<400> 945

tccgatgatt ctgttgctca cccccattaa gaaccattgc tataaaggaa ttctcctcca 60
catgaggagg tcgatgcctg gagacagagg cagcaggcca agggcaggca caccagctg 120
agatggggca gggctggaag gcaggcctcc tggatcctgc ctggggcctt gtctctctcc 180
ccacactcat tctttcaccg tatttgctgc tctcatggt gaggtcagaa atagcccgcc 240
cagccttggt gagccttcgc tcccacagga gcccaacacc cagcccgcga cagtccggtg 300
agcagcaggc tgctgggtgtt cctaagtcag ggaaatcttt ggaagaacaa tggagggagt 360

cgtgggaccc caggctgcga cctgccgcct ggctgctcac tgcacatgc tggtttcacc 420
ctgctcagag cgggctccac ccctgctcgg catcctgact catcctatgc atatggcagc 480
gctgcttgca ggagagccca ggcgccttg cagccccag gtccccattt gttccagttt 540
tactcactgg attcttgcca gaggtggcag ccgctgtgac acagtatatg ctacatttgg 600
tattgggcta atcctatatg aactaacac tgtcatggca agtagccaac tgctcactgc 660
gagccagctg ctttctgtgt actatcccat taattccca gcaaccctaa gggcgggcat 720
cgttacttct gccttaacag gtgaagaaac cgaggctcag agagggttag ctgacttata 780
ggaggccaca cagccagtga gcagcagagt tgggaattga acccaggatg ttcaatcgtg 840
cagggcccag acttttaacc cccctgctct cctttttctt actccacgag taagctcagt 900
ccctgcctct gctgcttcag ctgtgactgg agctccagt tagggcttgg gaggctcacc 960
cccgccaact gctgtctgat aaaggaatgt cttatgcgtg actggaaatg atggcatcac 1020
gactggtggg tttttatatt tagtctgtt tttttgttg tttgtttgtt tgtttgtttt 1080
actgaggcag gtactcactc acccaagctg gaggccagt ggcacagtca cggcttactt 1140
tggcctcagc ctccctcct acctcagcct ctcaagtagc tgggactaca gccatgtgtc 1200
accatgtcca gctggtttat gtttatattt agtagagaca gggctcctcct atgttgccca 1260
ggctggtctc tccctccggg gctcagcctc ccaaagtact gggattacag gcatgagcca 1320
gcctgctggg ttttggaac aactgtgagc tctgcttatt ctaactacat ttctcaaaga 1380
cagcacttgt tgtcccaag gtccatttgt cagtcttagc acctacatgg ctagcatct 1440
gcgccgtggg gatgtttctt cactggtgcc tgtgtggggc gcgcaggctc atttatggag 1500
aggctcattt atggagcggc tcatagccca cctcccttca gagggtgtct tgcctgagcc 1560
tggaggatgt gacgtggtga cgcacatgc cagggaggtg ccaggcagag tgccttctc 1620
tcttttgctc tcacccacc ccggtcctta cttggttaag acctgcagt ctttaacctc 1680
tttgctttct ctacgtccc tcccatccg catttcttc cctgtgaaag gagagaccg 1740
tcagacttta cttgaagat tctctctgct gtcttcaact tcattgcctt gttgctcttc 1800
cttctttcct agcagccact gaggtgggat cagcctgctg ttcactgcc catccactcc 1860
tcgacgctc tgcacgatg gacatctcac tgccttttag aggggcctcc gcagagtcaa 1920
ggtctttgac ctcatgtgg ctttctctt tttttctct ccatccttc tccacggagg 1980
gattgttctc aagtgtagac ctgacgtgg tgttgccaa agcctttggg aggctggttc 2040
gaagggtggc gtgaccctc tccgttgatt tttcagttac agatcgaact cttgttctg 2100

ctctttccct tcttctcact gctgcagttg actagtttaa aaaacaaaca aacgggctgg 2160
 cagggtggct catgcctgca atcctggcag tttggaaaac agatgggagg attgcttgag 2220
 ctcaggaatt caagaccagc ctgggcaacg tagtgagacc ctgtctccat aagaagttag 2280
 ctggacgcga tgggtgtgcgc ctgtagtccc agctgtttga gatcatgtaa gccagcagg 2340
 ctgaggcttc agtgaacat catcacacca ctgcactcca gcctgggaga cagcgagtga 2400
 gaccctatct caaaacaaaa caaaacaaaa caaaacaaaa cccttcagaa 2460
 tagcagtgtc caatcttttg gcttccttgg gccacactgg aagaattgtc ttgggccaca 2520
 cttaaaacac actaacacta acgatagctg attagctaaa aaagaaaaat aaaataattg 2580
 caaaaaaatc ttataatgtt ttaagaaagt ttacaaatct gtgttgggcc gcattcaaag 2640
 ctgtcctggg gcgcaggttg gacaagcttg ctttagaggt tccctgggac ccccaaaacc 2700
 aacaaggaga acaagctcag tcttctgtgt cttaattttt ggctttactc ttagccctgc 2760
 cccatttcct aggtctcca cagtccagcc gctttgagct acttttcctt ccctgatatg 2820
 tgcagctctc tcacctctga gcctccgcac ctgctgttcc acagcactct ccgcattgcc 2880
 ttctcccact gtggctcact gctgagctgt gttcaggccc tttgggaaac cctctctttc 2940
 actccttttc cctggctctgg cttgggagcc catgcttacc cctgtcagga caccttgaaa 3000
 cccagcagtg aaaacatgac acttccttgt ctggctgatt ttcttagtga agcgagtagg 3060
 agtttccttt gtcaggactt cagcaagcaa aattcaggag agacttattt atttttattt 3120
 tattttattt tttttttgag gtggagtctc gctccagcct gggcaacagt gttaagactc 3180
 tgtctcaaat ataaataaat aaataaataa ataaaaat 3218

<210> 946

<211> 2332

<212> DNA

<213> Homo sapiens

<400> 946

acactactgg gctccaagac tgctcaaggt ctactgata gtcaaggctt gtgctccttt 60
 ttttcaggag agtaagatta aagaaaacca ctgtgaatta aaaagtgtgg gtgccaacat 120

gggacgggag tcccccttca ctccatggat gacatagagg gggcagaaga ttacagaatt 180
ggcattgtcc tgcgtggaag ctgggccacc cacagtggcg tgggaagcct ctcagatgct 240
ggatttctaatt gggctcttga tcaccttgga ttgggctatt tcattgttat cacaaaataa 300
acaggatgct ccaagtcag ttatggcaga gaaccaacca gcttcacact ggtcctctaa 360
accaatcctc acaacaggac tgggagacag gtgttacctt tcccacttta cagagaatga 420
aacagagtgg caaagcctct gaaggaccct acacttcgga catcgcaaag caggatctga 480
gtcccggctc ctctgtccaa acctacttgc taggctttct tccccatgtc tactctatag 540
ctggaaaggt cgtggaggac acatttttagg ccaaccctct cggtttacaa tccagagagg 600
ggagaccctc agaagccaag cgacatgtcc acggctacgc ggcgagtgtg tggcaagggtg 660
gaagggggagc ccgagacgcc ctgggtctctc ctttctctcg caggttcctt tctccccgca 720
cgcagcccg caggggacgct ggaggaggag ctgagctgga gttgccgggg ccccgggacc 780
gggcgttccg ggggcgggtc ccagcagccg cgcattccag agccagcagc gcgtcctggc 840
cgctcctgcg ctctcccgcc tcccggggct cggaggagcc ggggcacgtt ccaggagctg 900
cctagggctg aggttccagg cctgggggtc gcttccagct gccagatccc gtgcagtcct 960
ggggaccctg agaagcaccg agccatccct gaccagga ctttccgcag actcgccgcc 1020
atctgggagt gaagcaacat ggatgcagtc agccaagtcc ccatggaagt cgtgcttccc 1080
aagcacatcc tggatatctg ggttattgtc ctcatcatcc tggccaccat tgtcatcatg 1140
acctcgttgt tgctgtgccc agccactgca gtaatcatct atcgcatgcg gactcatccg 1200
atccttagtg gggctgtttg agagcctccc aagagggccg ggtgagggat gaggacaggc 1260
atcctatccc cagcctcttc ctgtcttcag aaaagcagca ggagggactt tggggcatgg 1320
acctgagttc tggttttgat tctgccacga gccagctgtg tgaatttggt caagggacct 1380
aactctctga gttccagggt ctttatcttt caaatgggga tggatgatccc tgccctttct 1440
acctcatagg gatgtgagaa ccacctgact tagtggatgt gaaagctgtt tgtgatcagt 1500
aaagctacca cagatataag ggtgttatgc tgaatcctga gaagctttca agaaccagag 1560
aacctgattg ctgatgatgg ccttaaagggt ggtgaggag atactggggg cagagcagac 1620
tttgccagtg cccctcaggt caaaccaagc caagagcacc ctgtcccat tccaaggggc 1680
cagcagcact ttggcccaa gtatcttctt taagggtgcca ttccttcatg ttttctcagt 1740
ttggagggtg atgggtagag ctttccagaa ctttctccat tccagaatct ctgcccctgt 1800
gtaatctgaa ggaaggctgt gccatctttg ggcactgcca agggagtgtg ggtgatgggc 1860

ttctttctgc actggagtct cacatctggt agctttgaca ctcaagcaat gttggaaaat 1920
gcagggtgac tgagttccct gccagcttt cgggatctct ggcccccatc cccttgtgtg 1980
tgteccctctg cccagctcct gctgtaatta gctccacgtg taccaccttc actccctccc 2040
accagctctg cagccagcct atggcaatta tattttaaga ggtgttccca ggacttttgg 2100
gacctactaa aacaatgatg gttatttttag atgtgatgat ttatatttat gtagagatat 2160
ttctggacca ctcaagctct tcgataccaa aatcaggagc atcttgggat ttattaaatt 2220
atgtaagaag atagcacaga tatcgggata ttattgtgtg aaaatgctgc ttttactttg 2280
atgtgatctc attgatgtac acaaccaagt tccaataaag tgctagaatg tg 2332

<210> 947

<211> 2006

<212> DNA

<213> Homo sapiens

<400> 947

cittcatttt ctggtagaga caaaagagac atgttttattc cgtgaacca aaactccggt 60
gccggtcacg gactgggaag gcagccttcc cttgggtgttt aatcatttca gggacacctc 120
tctgattata cactcacgtt tcaaggatgt cagaccacgc agggatgcct gacttgggtcc 180
ttcacccctg gtggcaagtc tcgctttcct ggggcagggg caagtacccc tcaaccctt 240
ctccttcacc cttagtggca agtcccgtt tcctaggggg caagaacccc ccaatcgctt 300
atttccacgc cccaacctct tatctctgtg cccaatccc ttatttccac gcccacatct 360
cttatctctg caccccaatc cttatttcc gtgcccacac tctttctctg cttttctgga 420
ggggaagaaa accccacccc ttctccatgt ctctactctt ttctctgggc ttgcctcctt 480
cactatgctt ccaccttcca ttctctcttc ttctccctta gcctgtattc ttaagaactt 540
aaaacctctt caattctcac ctgacctaaa atctaagcgt cttattttct tctgcaatgc 600
cgcttgaccc caatacaaac tcgacagtag ttccaaatag ccagaaaacg gcactttcaa 660
tttttccatc ctgcaagatc taaataattc ttgttgtaaa atgggcaaatt ggtctgaggt 720
gcctaacgtc caggcattct tttacacatc agtcccctcc tagtctctgt gccagtgca 780

actcctccca aatcttcttt ctttccctcc cgctgtccc ctcagtagca accccaagtg 840
 tcgctgagtc tttctaattc tccttttcta cagacccatc tgacctctcc cctcctcgac 900
 aggctgagct aggtcccaat tcttctcag cctccactcc tccacctat aatcttttta 960
 tcgcctcccc tcctcacacc tgttccggct tacagtttca ttccgtgact agcactcccc 1020
 cacctgcca gcaatttatt cttaaaaagg tggctggagc taaaggcata gtcaaggcta 1080
 atgctccttt ttctttatcc caaatcagat agtgtttagg ctctttttca tcaaatataa 1140
 aaatccagcc cagttcatga cttgtttggc agcaaccctg agacacttta cagccctagg 1200
 ccctaaaagg tctaaaggcc gtcttattct caatatacat ttattatccc aatctgctcc 1260
 cgacattaaa taaaactcca aaaactggaa tctggccctc aaaccacaca acaggactta 1320
 attaacctca ccttcaaggt gtgcaataac agaaaaaagt tgcaattcct tgccaccact 1380
 gtgagacaaa cccagccac atctccagca cacaagaact tccaaacgcc tgaactgtag 1440
 cagccaggcg ttctccaga accttctccc ccaggaactt gttacacatg ccggaaatct 1500
 ggccactggg ccaaggaacg cccgcagccc aggattcctc ctaagccacg tcccatctgt 1560
 gtgggacccc actgaaaatc ggactgttca actcacctgg cagccactcc cagagctcct 1620
 ggaactctgg cccagggtc tctgactgac tccttcttgg cttaccggct gaagactgat 1680
 gctgcccgat cgctcagaa gcccgtaga ccatcacgga cgccgagctt tagaaggcag 1740
 gaatgtcagg cctctgagcc caagccaagc catcgcatcc cctgtgactt gcacggatac 1800
 gaccagatgg ccggaagtaa ctgaagaatc acaaaaagaag tgaatatgcc ctgccccacc 1860
 ttaactgatg acattccacc acaacagaag tggacgcgca tgaaaggaag gatatatgga 1920
 agaaatagtg acaagcttgg aagaaaggct tcttcgcaga agttattaca gaattcagga 1980
 gtcagagaat taaagaattt cttagc 2006

<210> 948

<211> 1758

<212> DNA

<213> Homo sapiens

<400> 948

ctttgcctgc tgtgcctgag tcgaagtgag ttcgggaagc cagtgcccga atgctcaacc 60
ttgctgtatc agggagggcc aaagtgtggt gattacaggc gtgagccacc gtgcctggcc 120
ccggccaggt attcttttag agcaacacaa aatggaccaa gacatgaatc aacagacaca 180
ctgatggatg aagagagagg ttggagtggg ggagactcgc acctgtggtg tccacctggg 240
gcaggaggcg caggaagatg ggccgggcat aggggtgccag caccttctgc agctcctggt 300
atatcgcggt ggggtccagc aggcgtgtggg ggtctgcgac ggccgccatc cctgccttac 360
cctccactcc tggaggcaga ggctcagctg aggacacccc gcctctcatc ctccccacca 420
gcaggaccag atacactgtc aagcagtagc ccctgggtctg taatctccag tctctcccaa 480
cctgggatga catttatgga agcagccaca cattttgtgg agctcctgct tggctcattg 540
aagccctaag acaggtgggc ttctatgata ccattttctg gatgacaaaa ctgaggctca 600
acatcaccca ggtgaactgg ctccagatcc agtgcttcct cctgggctgc catgagcagt 660
tgtccaggtt gtgcactgcc caaaggcatg tgtacttcta agcccccttt ggctgagctc 720
cctcaggacc atgcctcagg accaccccct gcaaccccag cttgcctgga acagccaccc 780
catagacggc cacgtctgtc tggcccagca ggcggtcag cacgccctcc acctcggtgg 840
tggagacgtt ctccccctgc cagcggaagg tgtccccgct acggtcccgg aagtacatgt 900
agcccagctc atccatcact agcacgtcac ctggcagagg ggagagggggc agatgggtgg 960
cggatcccca tccgcacagc cagtcaccgg ggcttagcag gctgcgcacc tgagaggtag 1020
gcgctgtcgc ccttgctgaa gacgctgtgg gcgatcttct tgctgggtggc gctctcgtctg 1080
acatagccat cgaagcggcg cagcgggtcc tgttgggtga tctgaccac aaggaggcca 1140
ggctccccta gggagaaggc catgttcagg ctgcgctagg caggcagggt gtggggaccc 1200
ctgctccggg tggggaccat gcggggggccc tgctcaccgg cctggcaggg gatgcagagg 1260
ccctgggcat cccgcagcag ctccattgtg tcctcattga ccttcaccag ccggatgggg 1320
tacacgtggg gcaggatgcg gctgttgaaa ccacaggagc cgacctggaa tggggtgaac 1380
tgagttggaa ggagccgggg atatgcgggg tccttctcag taacactttg cctgccttgc 1440
cctggggctt ggacctagca cctccagtgt cattctaagc tctgtgacct tggctgatct 1500
gcaaaagcag ggtagtaagc gtcgcctcca actcagggcc cctcctcca ccttcccagc 1560
ctgcattcag tcaagagaag acctctggct ggcgcccact tcctgatcca caaaaccctc 1620
catgctggca ggaagtagat gcctctgtgt ggacactaca gctacgtcag acgctgcaga 1680
gcttcacctg ctgcccgcg ccctgcttgg catggttcta tgaacagaaa tgcttctcca 1740

acatgtttga gccactac

1758

<210> 949

<211> 1624

<212> DNA

<213> Homo sapiens

<400> 949

aactctggga gaggagcccc agccctgaga ttcccagggtg tttccatccg gtgatcagga	60
ctgagcacag agaacgcacc atggagtttg gactgacctg ggttttcctt gttgctcttt	120
taaaagggtgt ccagtgtgag gtgcaattgg tggagtcggg gggaaccgtg gtacagcctg	180
gggggtccct cagactctcc tgtacagcca ctggattcga tatgccttct ttcaccatgc	240
actgggtccg ccaggctccg gggaagggtc tggagtgggt ctctctcatt agttgggatg	300
gtggtagtta ttaccatgca gacgctgtgc ggggccgctt cgtcgtctcc agagacaacg	360
gcagacactc cctatatcta caaatgaaca atctgagacc tgaggacacc gccttgtatt	420
actgtgcaaa ggatcccttg cggccaaata cttattacta tgacagtggg gacggcgccg	480
gtatctgggg ccaagggaca atggtcaccg tctcttcggc atccccgacc agccccaagg	540
tcttcccgtg gagcctctgc agcaccagc cagatgggaa cgtgggtcatc gcctgcctgg	600
tccagggtt cttccccag gagccactca gtgtgacctg gagcgaaagc ggacagggcg	660
tgaccgccag aaacttccca cccagccagg atgcctccgg ggacctgtac accacgagca	720
gccagctgac cctgccggcc acacagtgcc tagccggcaa gtccgtgaca tgccacgtga	780
agcactacac gaatcccagc caggatgtga ctgtgccctg cccagtccc tcaactccac	840
ctaccccatc tccctcaact ccacctacc catctccctc atgctgccac ccccgactgt	900
cactgcaccg accggccctc gaggacctgc tcttaggttc agaagcgaac ctcacgtgca	960
cactgaccgg cctgagagat gcctcagggtg tcaccttcac ctggacgccc tcaagtggga	1020
agagcgctgt tcaaggacca cctgagcgtg acctctgtgg ctgctacagc gtgtccagt	1080
tcctgccggg ctgtgccgag ccatggaacc atgggaagac cttcacttgc actgctgcct	1140
accccgagtc caagaccccg ctaaccgcca ccctctcaaa atccggaaac acattccggc	1200

ccgaggtcca cctgctgccg ccgccgtcgg aggagctggc cctgaacgag ctggtgacgc 1260
 tgacgtgcct ggcacgcggc ttcagcccca aggacgtgct ggttcgctgg ctgcaggggt 1320
 cacaggagct gccccgcgag aagtacctga cttgggcatc ccggcaggag cccagccagg 1380
 gcaccaccac cttcgctgtg accagcatac tgcgcgtggc agccgaggac tggaagaagg 1440
 gggacacctt ctctgcatg gtgggccacg aggccctgcc gctggccttc acacagaaga 1500
 ccatcgaccg cttggcgggt aaaccacccc atgtcaatgt gtctgttgtc atggcggagg 1560
 tggacggcac ctgctactga gccgcccgcc tgtccccacc cctgaataaa ctccatgctc 1620
 cccc 1624

<210> 950

<211> 2178

<212> DNA

<213> Homo sapiens

<400> 950

attccagcca cagcagcccc tcagcgtccc ccagtcacac cgtccccatt gctgcttacc 60
 tgtgcctttg tccatctaca atgcccttat ttcactctgc ctgtgggagt cctgtgaatc 120
 tctccaaagc caactcagtt catctttctg cttgaaacct tccctgaata ggccaggtgc 180
 ggtggctcac gcctgtaatc ccagcacttt gggaggccaa ggcaggcaga tcacaaggtc 240
 aggagatgga gaccatcctg gctaacacag tggaaccccg tctctactaa aaatgcaaaa 300
 aattagctgg gtgtggtggc gggcgtgtgt cgtcccagct acttgtgagg ctgaagcagg 360
 agaatggcat gaacctggga ggtggagcat gcagccagcc aagatcaggc tgctgcactc 420
 cagcctgggg gacagagcga gactctgcct caaaaaaaaa aaaaaaaaaag aaagaaagaa 480
 acttccctga atattccagc cctcctgagc ctagtccctt tttgagattt gtccccattt 540
 cttggacacc atatgagaga cttcagaggc tgaagtggga ggattgcttg agcctgggag 600
 gtcgaggatg cagtgaactg ttgtcatacc actgcactct agcctgggca acagagcgag 660
 acctgtctc aaaaacagcc accacaaaaa actatcttgg gatttgaata ggattacctt 720
 aaattttag ataaatttga gaattgacat ctgtacgaca ttctagaaca tggattttca 780

tgtcatgaat tcatttcttg ttaatgtctt tcagaagagt tttagggttt ccatcatata 840
 gatcttacac atcttttggt agataacaga tctttgtatt tttgttccta aatacttcag 900
 acatttgtat tgccattgta aatgggatct ttcttccatt ttctagttag ttattggtgg 960
 tacatctgaa aagcatttga ggtttgtgtg ctgctctctt gattttgttt ctagccaccg 1020
 tactgaattc tcatattact tccagtaaaa tcttagttga ttctcttagg cttctttggc 1080
 taacatttat tattttatat gcaaataatg acagttttgt ctcttccttt tcaataactta 1140
 cactctttcc ttcttttcc tttttttttt tttctttctc agggccttgt tgtcaccag 1200
 actggagagc aatgggtgtga tctagctcac tgtaacctca aactcctggg ctttaagggat 1260
 cctcctgcct cagcttccctg agtggctggg actacaggca ggcagtgaat ttgaaaactt 1320
 ttgttgtaga gacaagatct tgctatgttg cccaggctgg ttttctgcc actttagagc 1380
 aggtttcctt tttttcatc ttttaagagt tttttattag gaattgtccg ctgaatgtta 1440
 gctaaaacag tcaataaaat gcgttaagta ccagctgcat gcaagaccct aagttagata 1500
 cagtcagccc tcttcatcag caggctccaca tcttcagatt caactagata aggctgaata 1560
 tttgaagaaa gaaacaataa aaatacaatt agaaagtaca gtataacaac tgttgtcatt 1620
 atacaatatc tatacatttt attagtgatg acctaaagta catgggacca ggcacggtga 1680
 ctcacacttg taatcccaac actttgggag gccagcctgg gcagcatagt gagaccttgt 1740
 ctttaataaa aataaaaata aaaaaattag ctagtgtggt ggtatgcacc tgtagtccca 1800
 gctactcagg aggctgaggt gggcagatca ctggggccca ggaggttgcg gctgctgtga 1860
 gctgtgattg tgacactgct ctccagcctg agtgacagag ggtgatcctg tctctaagta 1920
 agtaaataaa taaagtatat gggggggggg gtgttggtta tatgcagaca ctgcaccatt 1980
 atacgtaagg tattgagcat ccacagattc tgggtatggtg tgggggcat atcctagaac 2040
 cagtcctctg caaggtagca aggatgactg aactgtggaa gaatcaaagc actgttaaac 2100
 agcatacaat tcctgtcttc aaaaaagtta tctcatcggg tagatgagac ttaaaatgaa 2160
 taaaaggaat gaatacac 2178

<210> 951

<211> 1558

<212> DNA

<213> Homo sapiens

<400> 951

gagctcggcg	ggggctgccg	ggattggggc	gccgcagcta	gcgctggtct	cggtggcagc	60
tcctccgcgc	cgcaggactc	ggctctacgg	gacatgtccg	tgccgcgctc	gccgcgcgcc	120
cgggcctgct	agtcctcttg	tgctccctga	acgcgcggcg	ccgcacctgg	cagcggcctc	180
ggagctcggc	tcgggcagga	gcgcgcggcc	gtgcgcaccg	cgcagcgacc	gctgccgtca	240
tggggctgca	gcccctggag	ttcagcgact	gtacctcga	cagcccgtgg	ttccgggaga	300
ggatccgcgc	tcacgaagcg	gaactcgaga	ggaccaacaa	gttcatcaaa	gagctcatta	360
aggacgggaa	gaacctcatc	gctgcgacga	aaagtctgtc	agtggcccag	cggaagtttg	420
ctcattcact	cagagacttt	aagtttgagt	ttatcgggtga	tgctgtgaca	gatgatgaac	480
gatgcataga	tgcttcctta	cgtgaatfff	caaatfffff	gaagaatctg	gaggaacaga	540
gagaaattat	ggcattaagt	gtaactgaaa	ccctgattaa	acccttgga	aaattcagaa	600
aagagcaact	tggagctgta	aaggaagaaa	aaaagaagtt	tgacaaagag	acagaaaaga	660
attatagtct	aattgataaa	catttgaatt	tatcagcaaa	aaagaaagac	tcacatttac	720
aagaggtata	atfffftatt	tttctgttac	gttttcaaaa	tttgataagc	aatacatgtc	780
ttttaaaaat	gtgctttaat	ttggataact	tttcatctgg	cattatatag	agataacaaa	840
aagtgaacag	gtattgtcat	aaattaagaa	aaaagtcctt	gtgaaacaag	aaaaaataat	900
gaatacatct	tatagtgatt	aatgagctat	ggattcatag	tagtaaaatt	tttgtttctg	960
agcattatff	tataggaaca	taactfftaa	ccagcattag	tgaagaacag	atatattatt	1020
tgcaggaata	gatcaattaa	ttggctfftt	ggagttcttg	aagaaatgaa	ttgaatttaa	1080
taagtcata	taccattatg	cgtttatgtg	aaggcagcat	taatcttatt	taatgctgag	1140
gattcaggag	gttcaactff	gttggaagaa	gagcatctgt	ttactttgta	ttaatagact	1200
catttatfff	ggaggcagcc	atatgtaagc	aggaaggaat	ttatatffta	ttfftcattf	1260
tctctffgtt	tactfftaaa	tcccttgcca	tttgffttct	tcactcacac	acttggatgg	1320
aaactcagtt	gtttacaatt	caaaacaaaa	tgctffttatt	aaaaataatg	ctgtfftgcca	1380
ttgttaggat	ttagtctcat	cccacaaaat	tgtatfffff	ttcttgfftt	tttaacacat	1440
aaggaatctg	gacattatgt	actactgtca	taaacactta	ttgaagtatt	atcaaaatga	1500
cacagtatta	agtcfftgtg	aaacctggat	tatatfftaa	tgfftagctat	ttagfftac	1558

<210> 952

<211> 2720

<212> DNA

<213> Homo sapiens

<400> 952

aatttcagtt ccagacctag cgtgtaacca ctggcattgt tattcttgcc atccaggaga	60
gctgacagtg tcattttgat acctggcttt agggctctcag tgtatttctaa acctgttagg	120
ctagagttgt tcacttagcc aagaagcagg tgtcagggtt gatcagatac ttgggtattc	180
caaagtgagt gtttgtatta gtctgttttc aactgctag taaagataca ccttgggact	240
gggtaattta taaaggaaaa ggtttaatgg gctcacacag ttccacgtgg ctggagaggc	300
ctcaccattg tgggggaagg cgaaaggcac atcttacatg gtggcaggcg ggagagaaaa	360
tgaaagccaa gtgaaaggag tttccctta taaaaccatc agatcccgtg agacattcac	420
taccatgaga acagtatggg gaaactgccc catgattca attatctccc accaggctag	480
tcccacacac gtgggaatta tgggagctac aattcaagat tagatttggg tggggacaca	540
gacaaaccgt attagtgtta ctgtttcctg ctgtccaggt gaaattgaca gtggtctcca	600
acttcttact caccttctgg taaatggagc caccaaactg tcccattatt tacgttagtg	660
tgaagttgga attcatcaga cttgtaacca actgcagagt tgctctgggt cactcaggat	720
tttgcagtct caaaatttat ctggtagcca gccagtcaac ccttgtaacc cagcaccaga	780
gcgccccaga tggaagggtcc agtgatgtca aaatccaggt tacagcccag gttgatgtgc	840
tcctgcttgt acctggtgtt gatcttagca tttttcccc agtattaggt gacaagggtg	900
aattgagggt cagcttcagt ccacttgcaa gatgatcttc cacagtaatc tcagtcctgg	960
tgtgttgtgt gtttcacttc gtaaacaatca ggccgtactc agtccatctg tacttggtct	1020
ccatgactgc ctgtcacttt ggtgatttca gtgttggtg agcctaagct ttcaaattcc	1080
aatgcattct cagattttgt tttcaaaagg tttattagtc catatccgta gcccttgttg	1140
aagacattcc tggcagattt gccaaagatt gcatacttgg gtggcacagc catcttctgc	1200
tcagagggtg tgggtggcagg cttggcggca gctatgatgg gggcttcac agggaggcat	1260

ggagcaaagc aagcagccgg tgtgtagtgc ttttaatggg gtttcattat atacctcata 1320
aagtcagagt ccatgtctgt attgctcacc attgtatcct tatcacagtg cttggcatat 1380
aatgtgtgct caacaaatat ttgttgaatg agcatctttg aatctcctcc cagctcaatt 1440
tgctattaac taagagaaag gcttttttat cagaagagac agaagtgaac ctgcacatct 1500
aacctttgac gtttttccaa tgatttaaag atgtttttca cccaaaatct cagtaggtgt 1560
tatcttctac ccttaatagt cacagatcag tcaacatcta aaaggccccg tctggagcaa 1620
atcactctgc cattctagtt tccacctaatt ttctaagtcc tatagtttctg cttaaataatc 1680
tcttaaacca ttttcttct ctccatcttc attgttatta ccttaaccaaa acttttatca 1740
gctttatttt ttttttttaa gatggagtct cgtctgccc aggctgggtg gcaatgatgc 1800
aatctctgct cactgcaacc tccacctctc ctccggcgagt ctctgcctg atgcctccca 1860
agcagctggg attacaggtg cccatcacca cacctagcta atttttgtat ttttagtaga 1920
gatgggggtt caccttggtg gtcgggctgg tctcaaactc ctgacctcag gttatccaac 1980
cgctcagct tcccaaagtg ctgggattgc aggtgtgagc cactgcgccc ggccccctaa 2040
aattttatca gctcttatac agattacagc agcagtctcc taacagcttt tgttgttgtt 2100
acacttaaaa aattttttta atttaatttt taaaaaagga gtccctgcag ctccagcacg 2160
gagacacagg ggctcaacag agtgcttctt aatagctttt tgtcttgagt ctagaccctt 2220
tttgattagt taggaattag cttagttaca tgtaatagag attctgtttt tctttttctg 2280
ggtatgcccc acattcatct atatattcac atattccaca gatatttgag tgactgcttt 2340
taccaatttt agcttaagcc ctgcagatac agagctgaac gagaacgttc aatccgtgtt 2400
ctcttgaaac ttaacgtagt tacgtgaagg ttaatatagg accagtaatc acaactgtga 2460
tgaatgttat aaagaagaaa tgcattctgt aatggaaaca tacagaagtg caaacttttt 2520
ctgtttgagg gatgaaggag agcttactg gaagtgattt tgaagctgag acccaaagga 2580
tgaattaaaa ttaaccagac aggcctggca tggtgactca cacctataat cccagcgctt 2640
tgaggaggcca aggcgggagg attgcttgag cccaggagtt cgagaccagc ctggggaaca 2700
tagtgagacc ccatatctac 2720

<210> 953

<211> 2438

<212> DNA

<213> Homo sapiens

<400> 953

cagcagggcc	ccaggacatt	gttgaagtc	gccctcaggt	tctgagcccc	tcccttctgt	60
actgtggggg	tcatcccggg	agtcctctcc	tggagctctg	tgccctgggga	ggtacgtcca	120
gcatggcatg	gatggcgggc	ttccataggg	gcctttcctg	gcttgttctt	ttctgggaga	180
aacctgagcc	gactgccacc	ttcctcgggt	gtgttttggg	taaagtcttg	aggccagaaa	240
gatcttgc	ccctcaagca	ctcttgagct	ggtgctgaac	cagggcacag	gcaggtccc	300
cggcggagtc	ttgagctctg	cctccttcgc	actgtactga	gctgagtgtg	aggatggtgc	360
cagcccaggc	cctgcagttt	ctggatccct	cgatgttcat	tgtctcgcgt	gagcctcaca	420
gctgcgtggc	aaagtcagtt	tactgggcag	agcacat	tttcccatttcac	agaggaggaa	480
acaggctcag	agaagttaat	ccgttgggtcc	agagtcacac	agtaagacct	ggagcccaga	540
ctccatctcc	tgctcctgt	ttggaccctg	agggttcggg	gttggtgcc	tgctcctgga	600
acccccaccc	agtgtcagaa	gctcctggtc	caggcagtag	caggctgcct	gctcccggcc	660
cagcggaggc	ctgtacagag	cgtgatgggc	cctgtgtctg	ttgcagggtgc	actgtgaaga	720
gttcatcccc	gagtttgaga	agcaataccc	agaatttccc	tggacggacg	tccaggctga	780
gatcttcggg	gccttcacgg	agctgttcca	ggtggcctgt	gccaagccac	caccctcctggg	840
cctctgcgac	taccctcat	cccgggccat	gtatgccgtc	gacctcatgc	tgaagtggga	900
caacggccca	gatggaaggc	gggtgatgca	gccgcagatc	ctggaggtga	acttcaaccc	960
cgactgtgag	cgagcctgca	ggtaccaccc	caccttcttc	aacgacgtct	tcagcacctt	1020
gtttctggac	cagcccgggtg	gctgccacgt	tacctgcctt	gtctaggcac	tcgctgtccc	1080
caaaacctgt	gcttggggca	ggattccaac	ctcagttctc	tgagctgctt	ctgcaaaggc	1140
ccccatgtcc	ctccccacac	cggccctggg	catagcctca	gccccaggcc	tctgtcctgc	1200
cgagccatcc	tcccggcgcc	acactccggg	agcacagcat	cctcctctca	cctgtgggtc	1260
agagcaggac	agtgatggtg	tcccaggggc	tgagcaccac	cccacgccct	gccctcacc	1320
ctcaccacca	tctgtgcact	gatgagtctc	cagtttagcc	aagggttcg	ttcctggcat	1380
ggagaatttg	ttcctggctg	ctgtgttccc	aggggggtgc	tgggggaagg	gttccgtgga	1440
gcgagacaag	gtgtcctcgg	gagcagggtt	ccaccgggaa	gcgtttggga	gccctgtatc	1500

acacggggca ggcgggtttc tcttccgggg tctctgctct tatgcatcag gacgaccccg 1560
ggacggctgt ggggccccac actgcaccca cagggtctta tgcgacaggg gccaggaac 1620
agcctgaggc caccaccag caagcccgcc ttatcaccca ttccagctca cccagaacct 1680
tcaccagcaa acctcctgct gaggtcctgg caggaggcca ccgtcttggt accgtttcct 1740
tttcgtttgc tgagggtcac agaccccaac agggaaatca gtatctgtct tcccagtgg 1800
tgccctgctc gccgggcact ccacggggtc ccgcccttgt gtgagatggg ccaggatcct 1860
tcggcaaggg gcgcctgggg ctggggctga ttgtgggcgg tggagcgcca gacagaaaag 1920
gattccaatg agaacttcag gttaaagtca gatgccacct accagggtct acagtcaaaa 1980
tgttggcttt ttcttgtttt ttaatgtatg ggagaaaaat gtaaaattcc agttcttttc 2040
taattgtgtt tctgaaatta ggagtcagct gccagcgttt ttgtgtggct gcagtgtgcc 2100
tgggcccagc tcacgggcag tgggtggacc taactgcca ggcaggcgag agctacttcc 2160
agagccttcc agtgcattgg agggcaggtg tctcctcttt gaaattaaga actatctttc 2220
tttagcaaa gctgcacctg atgatgctgc ctctcctctc tgtgttgtct gggcccttgt 2280
ttacaagcac gcgttacctt tcctgagggg agccatgctc tagcccctgg agggcctgtt 2340
gcaggggcag ggcgggcccg tcgcctttgg cagctcctgg agagctgtgg acatgcagtc 2400
cccctcagtt cgtgctgcaa taaaggccat cttctctt 2438

<210> 954

<211> 2103

<212> DNA

<213> Homo sapiens

<400> 954

tcgccagcag ctagcagcac tgactagtag gagggcccg cggaggagag ccgcgcggcc 60
cacagaagcg gaacgcgcgt cgagagcgcc ctgtccgctc gcccagaca gatgcccgtt 120
tattcattac cgcgaggcct agaggaaaga gtggctgccg tcttctgcc cacagcccg 180
cggaccctcc gtcgcggctg cccggtcccc ggagccgcag ccgccgagcc cggctgtgcg 240
tgtcgtggct gctggggaga aagaggcttc cggaagcccc agagagattg gtgagggtga 300

tttcccagga agacgcagtg tgctctgact tctgtgacag tgagcaacgg gaccagtgga 360
tgtccagatg ctggcaatga gacatgctct ggagtcagaa gacagcgaag agagaagcag 420
aagccccggt ggcaagagtc tgaagcagga aggatgactg tagcctgtgg attgtactgc 480
agtaggaaac tgtcctagca aggctccact ttgccccagc ttcaagctgg aaaggaggag 540
aacatgaaac attgcttgaa gacaatggcc gagacagcag gtcccaccct gcacagccac 600
cagcatctct cccctcagcc ctgtctcctc ttctgcagtt gggatctgca catttaagcc 660
tgaaattgtc ctgtgaagtg aagtatgac ggacagcctc ttttcagctt ttatgacaat 720
ggagacagag gaattgtggc tcttgccaag gtcacaggat tggaatacag agccaagcca 780
ccccaggaca tgcaagagcc tcagaaggga aaaaagccca gcaggaaggg agaacaagta 840
gcctctgtcc tgaagttgta acagccaggg gccaggatgg aggaggagga ccccataatc 900
tgcccatctg ggacttggca ggggacctgg gaaaatgtac cccaacccat cccttaaggg 960
cctttgtctt tggcccattg gcctagcatc tccttcttca ccgtgtctgt tcttgtcaca 1020
cctagtcagg tctgtttggg tctgaggtgc atggaacatt ctgggtaggc ctccagcaaa 1080
cggaagctct tcaccgtgtt tccagcctgg gaccaagggc agcatactgg caaagttgcc 1140
aaagcaaggg actccagcct cttaggagtt aatgactccc tctccccagc tgtcctcccc 1200
ttggtgctcc tcttctctcc tctcctgtc cacagcaggc agggcctaga cccgggagcc 1260
atgtgtctgt gctgttgcca ggggagcacg gaggcataatc tgagctatgc agggaaaagg 1320
cccagcctgt caaagtgtct gagatgaacc gccgccgtcc ctgtgcagct gggctcagac 1380
gtgtctcagc tcttgttctg tgccctgagaa tggcgaaacc cagttaggtt caagggcaaa 1440
ctcgtatttc attagtcagg ggttcttgac gtcccgtctc tcccagggat gaggttcccc 1500
ctcctcttcc tccccctcct atgacacatt cctgggtgcc tttggtgagg actgcacacc 1560
ctcctcctgc ctagccccct ctccaaaggc cctgaataa actccccca aggagaccag 1620
gcagggcaga gacaatggct gcaggaaatc attcaggcgg gacatgctgg cctgccctcc 1680
accagtcct cctgtgggccc cactccctt ctgattcagg gcacccttgg gccccagcc 1740
tatacaggcc tggacaggaa gaaaccactg ggaaccaccc taaggacaac atgctagtcc 1800
agtgccattc ttcgctggct ctgtgggtgc ctttgtggcc tgtaccgact ggctggctaa 1860
ttttgtggtt tctgtacat cacatgccta ttttaagaca ctctccagca ctgtcggtta 1920
gggagtgtaa attttgcaat attttctgaa atgtggcaat atcaaaatgt aaaaggcaca 1980
catacttggc cacaacaaa tggcactatt tactctgtgg gcatatttgt aaaagttgcc 2040

aaagaattat atacaaggat gttcatcaga gcattttcttt tgaagagtaa agaaatggac 2100
atg 2103

<210> 955

<211> 2447

<212> DNA

<213> Homo sapiens

<400> 955

aaaagcctgc cgctaatacat cttgggatga cggccccggca cccagcacac aaacagcgac 60
agtcccgagg gttcagccca ctctggcgac ctcgacagtc ggagaggaag gggcggggggt 120
gcgagcacct tcggatctac gccgcccagg gcgcaccgga aagctgccgc gagccgggggt 180
gggcttccgc tgggaataag ggctcgcctt tttgcgggac acaggccctg gcaaacctga 240
agcatgactc accgaaaagc gcaggcgcag ttccggagcc ttcagccgcc cagtgcccac 300
ggagaacttc cgatcaccgg gactgggaca acgtcaaggc tcagccaatc caagcccaca 360
ggccggcgca cgtgggtcctg ggaccagtg catgcgcgct agggaaatgg ctgccgtggg 420
actgcgctcg cgcggcttcc tagaggagga gccatggccc cgccccgggc ccgagagaaa 480
gaaactgcac tttcgttttt tagcagcaaa gtttgttgat gtactttaca acttatcttt 540
tctgcttcta ctcaggacag tcaagacagt gtcagctag atgttcacat aactgtagac 600
ataaatgtga atctatttta cgcagtaatt aattcaaaaa gtgttttttag catcctagca 660
tgcatacgtt gatatgaaag tagtaaagt taattgagt gtcttgtgca tcctggactt 720
ctcatctgtg catattctca ttctttgcct gcaaagggcc agtaaaagca cagtgatggg 780
tgaacgaatg tgacagcctc ctttgctgat gccttacctt aaggtaattt ggggaaagggt 840
tcagggaac agagtatcca atccaatact ctggactggg tgctggcagg aaggagggcg 900
attgtatgat taagtatcat aataaatctt acctaaaagg aggggagaca agaccagtga 960
ctcattaact gggatagggg atgtttggtc atttttgtgg tttggacaat gtttacgttt 1020
tttcagcatt cccacgtgat tacgaaggag tcttgTTTT gtcttgatcc atctgggtcaa 1080
agagtggcca cgtctgatgg tgttctgtga agtatttatg ttccacgcag caccaaggcc 1140

cagctgtgac tgccggggca gctcagagct gtcaggggtt acttttttct tgctgtctat 1200
tatagggcta aaatgtttaa ggattatata ataccttttt aaagaaaaaa ttatttggct 1260
gggcgtggtg gctcatgcct gtaatcccag cactttggga ggctcaggca ggcggatcat 1320
gaggtcagga gatcgagacc atcctggcta acacggtgaa acccgtctc tactaaaaat 1380
acaaaaaatt agccaggcgt ggtggcacgt gcttgtaatc ccagctactt gggaggctga 1440
ggcaggagaa tcgcttgaac ccgggaggcg gaggttgcag tgagctgaga tcgagccatt 1500
gcactccagc ctagcgacag agcaagactt ggtctcaaaa aaaaaaaat tatttaatga 1560
cacttgtcac ttgttaaagc atggtaagga agactttatt caggaccatt gagatagaca 1620
taggtaccac tgcaacaggg tcttgcagtg gggaagagag attggggtca acttcaattg 1680
tagcatggaa aagtgagaat ttatagccaa ggagcaaggt aggggggtca gtggatggaa 1740
aattattaag aggaaacatc aggggtaagg gggattctgt ctaaaccaac ctgacaagat 1800
tcttgctgaa gacgggccag ggtgatcaga tgtcacctgg aggttggtgg aggatgagga 1860
accaaactcag atattaaggg tgatcagata ttgagggtgg ttgcttttgg ctaaactgat 1920
ttatcaaggc tttttgctaa aactggattt tacaaggaag tgcacagata ggcctagtca 1980
ggagactgac taaagtttgg ttggaaaaga atgcttgata atctttactt ttgcctgtta 2040
aaataaaaaa aaattgacgt aattttaatt tggcagagtt tatgtgagca aagaatgatt 2100
catgaatcgg acagcactca gaatcagaat aggttcagag agctttgtgg gccgtgagta 2160
tttatagaca gagaatggaa gtaaaataca gaaataggct gattggttgc aatcaatgat 2220
cagatcattt ggatatgac tgagaagttg gcagcttgtg attggctgaa gcttgtctgc 2280
ttgtgtttgg ctgagacttg gctgtttatt atactcttcc ttaggttaag ctttcagtgt 2340
atttatgtac taagttaaatt tgcaattcat tgttagaaa atcaaagtac agagacagcc 2400
ttgagccaat agcctcctgc ttattttaatt taacatgctt taatggt 2447

<210> 956

<211> 2944

<212> DNA

<213> Homo sapiens

<400> 956

atcaagcgat cctcccacct gggcctccca aagtgttgag attacagcat gagccaccac	60
acccagacta aaaggcagtt tgattttaca aatcaaaaata gcagtaatct atggagattt	120
acttgtgaga ttggtaggaa acatcttaaa tgtaatcaaa caataactta catcttgatg	180
aattcacgtg taggtttctc ttcctcagaa gaaatcagat gctgttcaga gcacgaaggc	240
tagaatttta ccctggttct catgctacct tgcacccagg ttggatcctg agtacagttt	300
ttggcagggtg ggcctgcata taagtttagca atgggggata ccagctgcc tctcttcata	360
cagctgaggt tttggggagt cattcttata gcccctgggt tgggcctagt cctgcaaagt	420
aattcaccag ccctaaagcc caaattgcag cctctgtcat tcacctcca ggagtggaaa	480
gggcagtaag tttcatctta ttattattgc tattttgggt gttttgttga ggttggtgtg	540
tgtatgttag taagataaag ctctcagaaa ttacatagca tttgtcaagg atataagagg	600
gactgtgcca catctggctg tatagaaggt ggtttcatat ctttaaatag agccccaggt	660
ccttagccac cagaaagggt ttcaggggaa gtgtgcaccc tcagcagctg ctgctggtgg	720
gcaggatggg cacgcatgga acaggctttc ctctgtggcc aggtgagaag caggtggtga	780
gacacagagc agtgctgggc tctgcttctg aagcctcaa cctttccttc cctaggaagc	840
cccagagaga ttggtgaggg tgatttccca ggaagacgca gtgtgctctg acttctgtga	900
cagttagcaa cgggaccagt ggatgtccag atgctggcaa tgagtaggcc ttccctacgc	960
tgggtggcgt ccacaccctc cggtttccat tgcctgggtc tcctggaggt ggtttgctgg	1020
atgaataccg catgcacaga ggctggcctt gggtttgaat atggcagcca gtggacagca	1080
tgtgcttcag ttatgagact gcccaggaga tgcttcttcc aaggcagagc acgtgcagag	1140
tccagtgtg gagaggccgg gtgcgcagtt gaccatttc cagttctgtt ttccctctca	1200
tgttcctctg tccccatcta ggacatgctc tggagtcaga agacagcgaa aagagaagca	1260
gaagccccgg tggcaagagt ctgaagcagg aaggatgact gtagcctgtg gattgtactg	1320
cagtaggaaa ctgtcctagc aaggctccac tttgccccag cttcaagctg gaaaggagga	1380
gaacatgaaa cattgcttga agacaatggc cgagacagca ggtcccaccc tgcacagcca	1440
ccagcatctc tcccctcagc cctgtctcct cttctgcagt tgggatctgc acatttaagc	1500
ctgaaattgt cctgtgaagt gaagtatgat cggacagcct cttttcagct tttatgacaa	1560
tggagacaga ggaattgtgg ctcttgccaa gggtcacggga ttggaatata gagccaagcc	1620
accccaggac atgcaagagc ctcagaaggg aaaaaagccc agcaggaagg gagaacaagt	1680

agcctctgtc ctgaagttgt aacagccagg ggccaggatg gaggaggagg accccataat 1740
ctgcccattct gggacttggc agggggacctg ggaaaatgta cccaacca tcccttaagg 1800
gcctttgtct ttggccatt ggcctagcat ctccttcttc accgtgtctg ttcttgtcac 1860
acctagtcag gtctgtttgg gtctgagggt catggaacat tctgggtagg cctccagcaa 1920
acggaagctc ttcaccgtgt ttccagcctg ggaccaaggg cagcactatg gcaaagttgc 1980
caaagcaagg gactccagcc tcttaggagt taatgactcc ctctcccag ctgtcctccc 2040
cttgggtgctc ctcttctcc ctcctcctgc tcacagcagg cagggcctag acccgggagc 2100
catgctgctg tgctgttgcc aggggagcac ggaggcagat ctgagctatg cagggaaaag 2160
gcccagcctg tcaaagtgtc tgagatgaac cgccgccgtc cctgtgcagc tgggctcaga 2220
cgtgtctcag ctcttgttct gtgcctgaga atggcgaaac ccagtgaggt tcaagggcaa 2280
actcgctatt cattagtcag gggttcttga cgtcccgctc ctcccaggga tgagttcccc 2340
cctcctcttt ctccccctcc tatgacacat tcctgggtgc ctttgggtgag gactgcacac 2400
cctcctcctg cctagcccc tctccaaagg cccctgaata aactcccccc aaggagacca 2460
ggcagggcag agacaatggc tgcaggaaat cattcaggcg ggacatgctg gcctgccctc 2520
caccagtc ccctgtgggc cccactccct tctgattcag ggcacccttg ggcccccagc 2580
ctatacaggc ctggacagga agaaaccact gggaaccacc ctaaggacaa catgctagtc 2640
cagtgccatt cttcgctggc tctgtgggtg cctttgtggc ctgtaccgac tggctggcta 2700
atthtgtggt ttctgtacca tcacatgcct atthtaagac actctccagc actgtcggtt 2760
aggagtgta aatthtcaa tatthtctga aatgtggcaa tatcaaatg taaaaggcac 2820
acatacttgg tcacaaacaa atggcactat ttactctgtg ggcatatthg taaaagttgc 2880
caaagaatta tatacaagga tgttcacag agcatttctt ttgaagagta aagaaatgga 2940
catg 2944

<210> 957

<211> 2199

<212> DNA

<213> Homo sapiens

<400> 957

tatctgtgat tctgaacccc atgataaate ccctttgaac ctttttcctc tttttgatgc	60
cgatcctcct ttacgggact ccaattggca ttacgataat tcttatcgac ccaggtatgc	120
ccctctactt cttcagcate cccaggcacc tcggtttgct tctttatggt ggagaacatc	180
gggcattgcc accgccgctc ctctccctca gtatcaacat agattcaagc attctgcttt	240
gtttacctcc aacctgacta ttcctataca gagttgtgtt aagcttcctt acatgctgtt	300
agtggcaaat atcaaaattt ggacaaacaa tcaaactgtc caatgcattg tcatttatac	360
acttgtgttg actcccgttt tgactccagg aaaagtgtaa tgttggttgg agctcgagaa	420
ggaatctgga tactgtgtgc cggaccagcc aaagaatcct gtgtcaaac cgagagaacg	480
aataagcctt catcaccatg gcacatttat ataaaaagaa agggagagat gttgcgggaa	540
gtcagggacc ccgaatggag ggactgactg gagccgcggc agaggaacat aaattgcaaa	600
tatttcattt taatatggac atttatcagt tcccaaatta ttacttttta catttcttac	660
gcctgtctta ctttaatctc ttaatcctgt tatcttcata agctgaggat atatgtcacc	720
tcaggaccac tgtgataatt gtgttaactg tacaattga ttgtaaaaca tgtgtgtttg	780
cacaatatga aatcagtgca ccttgaagaa gaacagaata acagtgattt ttaggcaaca	840
ataggcgaca accataaggt ctgactgcgt gcagggtcag gcaaaataga gccatathtt	900
tcttcttgca gggagcctat aaatggacat ggaagtaggg aagatattgc taaattcttt	960
tcctagcaag gaatattact attaatctc tgggaaagga atgcattcct ggggggagggt	1020
ctataaacgg ccactctggg aatgtctgtc ctatgcagtt gagacaagga ctgaagtaca	1080
ccctggtctc ctgcagtacc ctcaggctta ctaggggtggg gaaaaacctg gccctggcaa	1140
atctgtggtc agactggttc tctgctcttg aaccctgtgt tctgttgttt aagatgttta	1200
tcaagacaat acgtgcactg ctgaacatag acccttatca ggagtctac ttttgcctt	1260
gtcctgtttc ctcagaagca tgtgatctct gttctgcttt ttgcccctta aagcatgtga	1320
tctttgtacc taccctccgt tcgtacaccc cctccccttt tgcaatcctt aataaaaact	1380
tgctggtttt gaggctcggg ccggcatcac ggtcctactg atatgtgatg tcaccctgg	1440
cggcccagct gtaaaattcc tctctttgta ctctttctct ttatttctca gccagctgac	1500
acttatggaa aatagaacct atgttgaaat actgggggca gtttccccga tagccttgct	1560
gaggaaatta aatttatgtt caagtctat ttctttatgg aaccaaggaa caagtatttc	1620
aaacaatact aatgtaacag tactggttct atgtgtttca aaattattat tctcatgagt	1680

gtttagctttc ttaaaaaatc gttttttatca attggatcta gacatcttat ctttcacagc 1740
tcaagaccca ttaactcaaa atcataaact cttaatgcat aatgagaaat ataatgattc 1800
ctagggccag gcacttgtgt ctgtgctggg gctattgcct caatgcagga aaatctatgt 1860
gagaattcac tgtgaggcca aaactgcttc ctaaacaatgg atacctgcca ggtatctgag 1920
ctgggagtag tggccagggtc tggatgggtg gggagtgttt gcaacaagga ctgtgccttg 1980
ccagccctcag tgacacagtg tccaagtgcc ccaacttagc agccacctgc tgaccacctg 2040
atttctgtgg cctaataagg atgtgatgaa gtctacctgt ttactcaacc ccaaaccaca 2100
cattatccag gtggtttgaa acttttttga tatactgggt tcctcctctg gagtcctaac 2160
aatgttttag ctaatttaca aaaaaacaaa aacaaaaaac 2199

<210> 958

<211> 1714

<212> DNA

<213> Homo sapiens

<400> 958

agtttcggcc gaggggtgggc tccgcggtcg ccggtttctc ttcccagctc tgccctcgct 60
tgctggccgg tctccgggggt cagcgcgggg ccaccatcca gccccttggg gcccgcccca 120
agcagctgtc gaggacgcac tcagcctgcg cagccatggc ctcggcaggg gcggagaggg 180
ggccgggggt ccaggaggcg acggtcgtgg ggcagggaca gtcacggag gagcccgga 240
gcgctcagac ctccgagtgt ccagtggcgg gagaccagtt cctgggtgcct gcccatgagg 300
cccgcggaac ccggagtga gaccagcgcc cagcaggcgc agcttcggag tcggagctcc 360
aggaggaagg acccaagctg ggggaggagc ggccaagcc gcatgccggg gcgctagagg 420
agagaggccc caggcccgtg gtctccattg tgaggccccg tcattggtcca aagagaaagc 480
ctgtcaagtg agggggctct cggggggaag gagctgcagc cccgggggttg gggcacacac 540
cacagtagga ttctaaatc ctgcactcct gcaggaggga ttctcgctcc cagccactac 600
catcactctc ctcccgttcc tcaagagccc ccgtgtaggg agcagcagga gagtgggagc 660
ttcagggctt gtaggggcct gggctcactg gcctctaagc ctcttgggcc tgggggtctca 720

ttgaccagga acgggacagg cgtcgagccc tggggctgtg ggcaggctgg gctattccct 780
 gggccaggga atgggagcca gggctggagc ctggctcaag tctcttgtcc ctggctcagg 840
 tctctcagcc tcccgggcct tcgtgcccat ctttaaggctg aagctgagct gccaccaag 900
 ctgccgctgc aggaggagga gccagaggac agccagagtg agccctcacc atctgccaaa 960
 cagcacaaaa aagccaagaa gcgcaagagc ctgggggctc ccgtgctcca cgctgtggcc 1020
 agcatggtgt ctgcaccctt agagacattg aggctggagc gtgagtggca gtccctggac 1080
 tgttccttct cccctgcct gtggggcccg acatggcaca acctggcgct ctagcctctg 1140
 ccctgccctg ggtctttgca ggaaaggccc agcgcctgcg gccgctgtac cagtacgtca 1200
 actattgcaa ccctgagctg aaccaggcag ggaaggggga cggggaggct gaggtggagg 1260
 cagaggcaga gctggccccg gttcccaggg agggaggtgt ggagcaactg caggccttgc 1320
 tgcccttggc aggtgagctg ggcccaggcc tcgctttgcc ctgtcccagt ccactagtga 1380
 cccccacca tgccctggct cccctcgag agggagctgg agaggagcct gggggcttgc 1440
 ccagcttggg ggtgagtgc cacaaggccg aggtggataa gtcaaccag gtggacatcg 1500
 acaagatgct gagtgtctgc actgctccac ttgtccccc gctctctct cagtacaagt 1560
 gactgtcccg cccactggt ggctcccctc cttccacgcc tgaatttggc ttcaggcttc 1620
 ctgtgggcct aggccctctg gtggcggggg caaatttggc acctgcccc acttgggact 1680
 ttggtcttgc tgaaaataaa tatttttctt tttc 1714

<210> 959

<211> 2084

<212> DNA

<213> Homo sapiens

<400> 959

ccttttgccg agtctttgtc tggccccagc cccgcggggc cccgggtccc tgtgccctcg 60
 ggggtcccta gaaggcgaca atggctcgag tccaggcgcc gaggtggcg agcgcctgct 120
 tggcgcacag ctgcccgttg agcggcgggc gctgctccga ggagtccggc tgctggctca 180
 ccagccccga gaagccggag ccaaagatgg agatcaagtt tgagatgttg gacgcgtccg 240

gggacgagtc cgggcagaag tcctcgaagc gggcgcgctt gcagggggcg aacggggcgc 300
ccccgggggg ctcggcccc agcccgcccc catcctcctc gtcgtcttcc tcctcctcct 360
ggccagggag ccggctcagg tgtctctccc tccaggaagt ggggcttggt ccctttggat 420
acctgcactc cccatcacgc cactccccat cgtggcactt cccttggtgc agttttatgg 480
agtgtgcgtc tggctctcca actagacttg aaccgcttga gtgcataact cgggacttga 540
ccatttgcgt ctccctacgg ccagctcagc ctccgcacac agggacctgc agagagtgga 600
ttagccact gccccagcgt ccctgggctc tgaagagaag ccattgccct tcaagagcca 660
ccctcatttc ctgggcactg gttggaaaaa acgaagaaaa agagacaccc agctcacctc 720
caagtttgcc tgcaggtgaa tatcttggtg aaagagaggg gactccctga gtcttgctgg 780
gttgaggaag ctgattggat ttccggactc agaggagggc tgcagagagg gaggaatggg 840
ggggatgggc agctggcttt ctggatgggt gcaggacaat gacattgatg gggaagcttg 900
gggtggctct gccgttgccc actgcttggtc tggatgaact gctacatctt ggccagcact 960
atcctcttct ggccctgcacc ctgccagaca caggcagtag cccaataacc ctgtccctgt 1020
gccccgaagt ctccatgacc ttccagatccc aagggacaag tggctccacg aggcagggcc 1080
tgtccctctg gctcacacta tggagtccac agaacctagc ccggagccta gtgcacagta 1140
ggtgctcaat gtattctatt tgaatgttg atgagtgaat aaatgcagga atgtcaggct 1200
ggaaaacagg tatttgtaca cctgttttca tagcagtgtt attcacagta gtcaaagggt 1260
ggaagcatcc cacgtgtctg ctgatgggtg aacgagtaaa cagaatgtgc ccagccata 1320
caatggaatg cgattcagcc tttttttttt ttgagacgga gtctggctct gtcaccagc 1380
ctggagtgca gtggcacgac ctgagcttgc tgcaacctct gtctcccggg ttcaagtgat 1440
tctcctgctt cagcctcctg agtagctggg attacaggca tgtaccacca cacctggcta 1500
atttttatat ttttagcaga gacagggttt caccatgttg gccaggggct ggtgtcgaac 1560
tcctgacctc aagtgatcct ccctcttcgg cctctcaaag tgctgggatt acaggcgtga 1620
gccacggcgc ccggccacga ttaccctta aaaaaggaag gacattctga cacatgctac 1680
gacttgggtg aaccttgagt acctgagtga aataagccca tcaaaaaagg acaaatatta 1740
gccaggtgct gtggctaata cctgtaatat cagcactttg ggaggccaag gagggaggat 1800
tgcttaggga ttgctcaata ccagcctggg ccacaaagca agaccacca tgtgaggtgt 1860
ttagagtagt caaatcata gagacagtag gatggggagt gccaggagct ggggagaagg 1920
gggaatgggg agttagagtt taatggggac agattttcag ttttacaaga tgaaaaatgt 1980

tctggagatg atggtggtga tagaggcaca atgtggatat gcttcatgcc actgaactgg 2040
acctaaccat ttatgttttg tgtattttat cacaataaaa aatg 2084

<210> 960

<211> 2139

<212> DNA

<213> Homo sapiens

<400> 960

ctcttctctg gccggcgctg aaacgaagtg gacctgttc ctaagtggcg ttttttattt 60
tttatttttag gaacaacgca aaaatatatt cttccgcaac attaaacaat tcagcaattg 120
acgtccaagt cgtgggagac ctgagtgggg ggaaccaaca ataacctgga acaatgaagt 180
gggggttgggt gtttctgggg gccctgctct ctttggggaa catgtcctgg ggagagaagg 240
gtctggagat ccctgaatat gatgggaaag accgcgtcca tgatctcaat gctaagaact 300
acaagtctgt gatgaagaag tacgatgtca tggatgacta ctacatgca catgtggaga 360
gcaacaaaaa cgcccagaaa gcattcgaga tggaggagct cgccctggag cttgcagccc 420
aggttctgga tgatctcgac gacgaagaca ttggattcgg ccttgtggat gagaagaagg 480
acctctctgt cgccaagaag ctgggtcttg atgaggtgga gagcatctat atctttgtcg 540
ataatgagat aattgagtac gatggcgagc tggccgctga caccctgggtg gagtttctct 600
atgatgtgat tgaggaccct gtggagatca ttgataatga gcgtgagctc aagggttcc 660
acaacatcga tgaggacatc aagctggtcg gctacttcaa gagtgagaaa tccccccact 720
tcattgagta tgacgatgct gccgaggagt tccaccctt catcaagttc ttcgccacct 780
ttgacgcaa gattgccaag aagctaaaga tgaaactgaa cgagggtgac ttctatgaac 840
ccttcatgga ggagccagtg accatcccag gacagcccta ctctgaggct gagctttag 900
actacatcga ggagcacgac aggcccactc tgaggaagct tgagccccac agcatgtacg 960
agacctggga ggatgacata gatggagagc acattgttgc ctttgctgag gaggatgacc 1020
ctgatggtta tgagttcctg gagatcctaa aggaggtggc ccgtgagAAC actgacaacg 1080
ctgacctcag catcatctgg attgacccccg acgatttccc cttgcttgtg ccctactggg 1140

agaagacatt cggcattgac cttggttctc ctcagatcgg tgtcgtggat gtagaagatg 1200
 ctgatagtgt gtggatggag atggatgatg atgaggacat gccactgct gatgagcttg 1260
 aggactggat cgaggacgtg ctgtctggaa agatcgaccc agacgatgat gatgacgatg 1320
 atgacgatga tgacgacgat gacgatgatg atgacgatga tgatgacgac gacgatgatg 1380
 acgacgatga cgacgacgat gatgacgatg atgatgacga cgatgatgat gacgacgatg 1440
 atgatgacga tgatgatgac gatgatgacg acgacgaata aatgatcgct tgccatcctt 1500
 ggggtttactc ggctttaacc aacagtggcc aaaagccggc accaatatct agtttcctaa 1560
 catctcgtcg ttaacacatg ctgtgtctct tcctgtttgc tttctgtatc tctttctcaa 1620
 atccctggtc agatagtcaa gtgacacacc caaagggcaa cacctaaatc aatttcactg 1680
 ggtaagaaaa gacacgaaag cagggggaag tttttgtctg tgaaaaaaag aatgggttgt 1740
 ggttgaattg taagttctgt gttctttgtt gtatgaaatg tttgtctctc ggggttataa 1800
 ctgtctgtgt gtatgtgaga actaagctga ggaaaactag catgtttgac cttgttttgt 1860
 ttatctcgtt tagcactagt cagggatgcc cctttccccc ttctccttt atcccatctt 1920
 tctgtattct ggaaccacta catgttttct actggtaaag agaagcaaca accaacttat 1980
 tgtaccattt tttaaagaaa aggaaactta acctctctga aacgtcttaa gaataacata 2040
 gtttgagaaa gtgataaaga tcttggaatt cacaaaaaat gcaaaatcat ttgattgttt 2100
 ctggtccgat attggaaaaa aagaaaatat ttaaaaatc 2139

<210> 961

<211> 1709

<212> DNA

<213> Homo sapiens

<400> 961

ctggcttccc caagtggagt gaaactcagg agctgagaaa ccgagtcact gtgaaaagat 60
 gggaaattat ctctgcgaa aactcagttg cctgggagag aatcaaaaga agcccaagaa 120
 aggaaacca gatgaggaaa gaaaacggca ggaaatgact acatttgaaa gaaaacttca 180
 agatcgagat aagaaaagcc aagaagtttc atccacttct aatcaggaaa acgagaatgg 240

cagtggttct gaagaagtgt gctacactgt cattaatcac atcccccatc agagatcctc 300
cctgagctcc aatgatgatg gctatgagaa cattgactcc ctcacaagga aagtgagaca 360
gttttagagaa aggtcagaga cagaatatgc ctttcttagg acttctgtta gtaggccttg 420
ttcctgcacc catgagcatg attatgaagt tgtgtttcca cactaaaatc ctcaagctgc 480
tttatcacct tccagcaatg aagacaatgc agaatagcag actctggcga agttgttcac 540
cctgagcagt gcatgaaaca ttcctttctg gctaaagttt agaaatatta tcttattata 600
tataccttagg caactctgat atgtggcatc tctgtggctt aggtgaaatc atagaaattg 660
acacaatgac ctaaaatatt ctatgtgttt ttgcttgtaa agtttgagga catggagggtg 720
ataaaaaaaaa ctttcttagg acaataatgt aaaatgaaaa taaatttcta atccccctga 780
ctaactgaat ggaccctctt ctaggccaaa gagacctcag atgaacctga aagactgaat 840
tctggccatg ataggaaggg aggtgagaca caccttgtaa tacccttcc cttttggagt 900
ttatgcacaa gtgaccagga tgagtcataa gactgatgaa atagactgat tgtggcaata 960
agagtcccaa ttccaacctg actctggtgt agatcacaca ctgtctgagg gattccatct 1020
atgagacttt gtctacataa cagagacctt ggtttccaca acccctttat tttagctaaa 1080
gcattctttt ctactgactt cttagtctt tagacaaagc ttaactctt caaccaattg 1140
ccaatcagac aaactttgaa tctacctatg acctgtaagc tctctcctgc ttcaagatct 1200
tgctctttta agctgaaccg atgtgcactt tccatttaat gatttatgtc tttgcttgta 1260
actcctgtct ccctaaaatg tataaaagta aacgggtgacc tgaccacctc aggcacactt 1320
tctcaggacc tcctgagagt gtatcccagg ccatggtaag tcatgttggc tcagaatcaa 1380
cctctttaaa tattttacag aatttgggtt ttggttacca ataagtctcc acaaatatat 1440
gtccaagaat cttcaattcc aagcctgctc accaaatttc aaatgccaac atctcccat 1500
ccaattacct atttcatctt tgaggtgtaa tctactcaat aaactgtgta agaccagtga 1560
ccagaccctt tgctaacctg acatttactt caatttttct ttttctatgt actggatatt 1620
tttgcatata aacttgcagt aatagttcaa aaattaatag tttttgacat tggcttttct 1680
gagaagagaa attgaaagtg tcacaaaat 1700

<210> 962

<211> 1762

<212> DNA

<213> Homo sapiens

<400> 962

```
agacgcaaaa gacactcttt ctgtatggct tctgtaaaaa accgacgagt tgtggctgat    60
aatggttggt tgccacaaac tcattccaca cagctgtgcc ggcacagttc aacatggccc    120
ctggctcttg gtatgcagtt attatctagt gaaagcattc gctttatfff tttttttttg    180
agacagagtc tcgttctgtc acccaggctg gagtgcagtg gcgtaatggt ggctcactgc    240
aacctctgcc tcccgggttc aagcgattct cccacctcag cctcccgagt ggcttggact    300
acaggcaccc gccactatgc tcagctaatt gtatcttttag tagagacagt gtttcgccat    360
tttggccaga ctggctctga actcctgacc tgagggtgatc gaccgcctca ggcttccaag    420
gtgctgggat tacaggcgta agccaccgtg cctgaccccc aaatccaaat tttctaaaag    480
ctaaaccagt aggaatagtt ttctccatct gtaagtattc aataaccaac acatcatttg    540
ttataataat agtcctgagg cattacaaga tgttataagt ttattctgaa tctcattcaa    600
ttgtgttcaa tgtggctcaa ttcttttaca attaaaattc ttgaatatat gttaaaaatt    660
aaacaatctt aatgtttctt ccttaactag actggataca cgtctgttta actacgcaaa    720
aggtaatgct ggcatggctt actgggaccc taagtgtggc gaagggactc tgctccagtg    780
aactggcgag tgtggaacct cctgacacct tctgaggacc tcctgcctgc catgttgctg    840
tggagctcgc actcctcagg catcccctga tgttgagtga taaaactct atcaccggaa    900
tcgatgctgc tgcaatgaca agacttcttt ctggttttca gattctaaag tttaaaacaa    960
cgacaacaac aggagcgctt gaaagttacg gtgcttctcc ctctccagtg tggactcgct   1020
gatgtttgga aagattggac ttgctacaga aggtctttcc acagtgacga caccagtagg   1080
gcttttcccc ggtgtggatt ctgtggtggt tattgagggt ggagctgtgg ttgaaggctt   1140
tcccacactc cttacactta tgtggcttct ctccggtgtg gagtctctgg tgggagctga   1200
ggcccgcatg ctgactgagg ctcttccac attcgttaca ctgatgaggc ttctccccag   1260
tgtggatccg atagtgacga atgaggctgc ctttcccgtc gaaagccttg ccacaatctt   1320
tgcactgata tggcgcctct tctgtgtgca ttctctgatg tttagaagg tctgagctct   1380
gcccaaaagc ttttccacac ttacagtcac agggccggtc caccaagtgt gttctgtagt   1440
ggagggtgag gtttgagctg tggctgaaag ctttcccaca cttggtgcac acgtaagggt   1500
```

tctccccagt gtgtgttctc ctgtgtttgg tgagatttga gctattacta aaggctttgc 1560
 cacattcagc acatatataa cgtctctctc ctggggtagg tttagtagga actgattctc 1620
 tacctttctt ggagcctgcc tcttgaagag ggggttttgt tcctttttca ttttcaaggt 1680
 ttacgcactg cctctctaag ctggcctcag gtttattggc gataatcaca gaaattatat 1740
 cccctttgag cccctctgct tc 1762

<210> 963

<211> 1615

<212> DNA

<213> Homo sapiens

<400> 963

aactagattc ctctctata gcagcccctg ggagcacagc tcttcacat ggactggacc 60
 tggaggttcc tctttgtggt ggcagcagct gcagggtgtcc agtccctcct ccagttggtg 120
 cagtctgggg ctgaggtgaa gaagcctggg tcttcggtga cagtctcctg cgaggcctct 180
 ggagacagct ccccgacata tactataagt tgggtgcgac aggcccctgg acagggcctc 240
 gagtggatgg gagacatcac ccctgtcttt ggaacaaaag agatgtcaca gaagtttcag 300
 gacagagtct cgatcacgcg ggacagcgtc tcggtcaccg cggacacaag acgtacagtc 360
 tacttggagg tcaggaggct aacatctgac gactcggccg tctattattg tgcaaagtca 420
 gagactgacc attcattcta ctactacata gaactctggg gacaaggtac cacggtcacc 480
 gtctcctcag cctccaccaa gggcccatcg gtcttcccc tggcacctc ctccaagagc 540
 acctctgggg gcacagcggc cctgggctgc ctggtcaagg actacttccc cgaaccggtg 600
 acggtgtcgt ggaactcagg cgccctgacc agcggcgtgc acactttccc ggctgtccta 660
 cagtcctcag gactctactc cctcagcagc gtggtgaccg tgccctccag cagcttgggc 720
 acccagacct acatctgcaa cgtgaatcac aagcccagca acaccaaggt ggacaagaaa 780
 gttgagccca aatcttgtga caaaactcac acatgccac cgtgcccagc acctgaactc 840
 ctggggggac cgtcagtctt cctcttcccc ccaaaacca aggacaccct catgatctcc 900
 cggacccctg aggtcacatg cgtggtggtg gacgtgagcc acgaagacc tgaggtcaag 960

ttcaactggg acgtggacgg cgtggaggtg cataatgcca agacaaagcc gcgggaggag 1020
 cagtacaaca gcacgtaccg tgtggtcagc gtcctcaccg tcctgcacca ggactggctg 1080
 aatggcaagg agtacaagtg caaggtctcc aacaaagccc tcccagcccc catcgagaaa 1140
 accatctcca aagccaaagg gcagccccga gaaccacagg tgtataccct gccccatcc 1200
 cgggatgagc tgaccaagaa ccaggtcagc ctgacctgcc tgggtcaaagg cttctatccc 1260
 agcgacatcg ccgtggagtg ggagagcaat gggcagccgg agaacaacta caagaccacg 1320
 cctcccgtgc tggactccga cggctccttc ttcctctaca gcaagctcac cgtggacaag 1380
 agcaggtggc agcaggggaa cgtctttctca tgctccgtga tgcattgaggc tctgcacaac 1440
 cactacacgc agaagagcct ctccctgtct ccgggtaaat gattgacgac gccggcaagc 1500
 ccccgctccc caggctctcg gggctcgcgcg aggatgcttg gcacgtacc cgtgtacata 1560
 cttcccgggc gccagcatg gaaataaagc acccagcgt gccctgggccc cctgc 1615

<210> 964

<211> 1802

<212> DNA

<213> Homo sapiens

<400> 964

tttgggggag agacatcatc aaagtaggtt tgtgctgtg tgcattgtg cgggtgtaca 60
 tgtgttcacc ttcccacccg ctgaaacttc agatgcagt aagccttctc acataaaaca 120
 atatacctta actgggcata ttgctctgtg ggattcaaaa gtattttgta aattctggtc 180
 acttgagggc ttcttggaat caggtttttg tctagtctgt gagcattct gccagttcct 240
 gaaacatggg ctgccgtgcc tgcttcccag gtgccgagct gtttccttca accatggtca 300
 ccctttgtct caccatctga aaggacacac atttcatgtg gattgtggtc gcttgagtc 360
 tctcaaaaac actctttttt tcccataac tttatgtagt ttcttaggta acattgtctc 420
 tatatttgta agccactctg agttcttttg ggctgtgtgt aggtgggcat ggactaattt 480
 tagggcgtga tgtggaaata gtattcgtat tactgtttta tatgttctcc tttcttttat 540
 taggcaagaa aaagtcatat ttcccacgtt gttcatgggg cagtaaaccg ctttgacccc 600

gctcctcctc ctcctggtct gggctcctcg cgtccatcgt cagcgccggg tatgctgcct 660
ctcagtgtgt gagtgcctag cctccaggtg ggggctcctg ccctcctcca acaaccagg 720
acacccacgc ctcacccctc ggtgcctggg ccagccccg tgcccctccg tctgcctccg 780
cacggctggc agagggcagg ctgcatgcag tggcggtac tgggccctgc ccagccccg 840
aactctgcgc gatataata ctggctatct tctcttctcg ccgtagtgcg gttggtttca 900
catgattgca cttttgtggg tcgcaaggtg atacatacgt gtattacttg gtcactggat 960
gcagaagtac ccattcatca cacctgcccc atagccccca ctctgctgta ctgataggat 1020
ttagttgtgt tttaggacat tgcaaactct ctagaagttc tccccaaat caggtcaatg 1080
tgtgccctcc tgagctccca ccagggcatc tccagtgtc atgatcatgt gtcccccaac 1140
tccacccctc acagtttggg cctgtttctg gcaaagagtc aggaagggtta ctgaattagg 1200
gaacattttc tgcaccttct gatcttactt aagcagctac cattccatgg acttgccctc 1260
cagagcagca caatgcccg ctgagcccca cgtggcagga gcctctggga cggggcacac 1320
acaggcccag cctctgtgct gtctcctcct ctgtgcgcct cagactcggg gtgaggagg 1380
cgggcagcct ctgccagcc ttcccgtcct tcagttcaac gacatctttg gagtgttttt 1440
gttttctctt ccaagggccg tcccgttgtg ttaggaaggg tgagtggctg gttccagggt 1500
gggccgggtgc cagctccggg gtggactgaa cagcggcggc tgtccctgtg catcctttga 1560
ttactctcat gctgcattta ctgtttacat ttgttttatt gtacatagggt ttgtaaacat 1620
tattgcctga gatatttgta tataacttgg gctttgtagc ttttatttat tcagaacgca 1680
tacggcatgt taatgactct gatggtgtcc tcctctgggc agctgtatag gatcatcatg 1740
tggttacaaa aaatacttcc ctcaaaaaaa ttcttttaat gtggaaacaa taaatttcac 1800
ag 1802

<210> 965

<211> 2105

<212> DNA

<213> Homo sapiens

<400> 965

tgggtgttgt gttgtgtgtc catgcatggt gactctgtgt ctgggcgtgc gtgttttgtgt 60
gtcgtattca ggcgtgggtgt tgtgcatccg gtgctgtctt ctggctctgtg gcctctatgc 120
accaggcgtg gatgtgtctg tgtctgtgtc tctgtgcctt cttgtgtgca tcatgtcttg 180
tgtgtccagg cgggaggggtg ggagctgtgt gttgtttttt ccccgggtgtg tgtgtggaga 240
gacctggacg cgcctgcgtc cctggctgcc ctgtgcctct gtacgcgtg ccagcttgca 300
caccctgca cacctgcca ctgatctgt gacccctccc cacagggcac cttcagccgc 360
tgctacaagc tgacagacat gtccaccagc gccgtgttcg ccctcaaggt ggtgccgtgt 420
ggcagggctg gggtcgggtg gcttcgccc cagggaagg tggagcgtga gattgccctg 480
catagccgcc tgcgacccg caacatcgtg gctttccacg gacactttgc tgaccgcgac 540
cacgtgtaca tgggtgctgga gtactgcagc cgccagtctt tggcccacgt gctgagggcg 600
cggcagatcc tgacggagcc agaagtgcgc tactacctgc ggggcctggt cagcggcctg 660
cgctacctgc accagcgggtg catcctgcac cgcgacctga agctcagtaa cttcttctt 720
aacaagaaca tggaggtgaa gattggagac ctgggactgg cggccaaggt ggggccaggg 780
ggccgctgcc acagagtact ctgtgggacc cctaacttcc tggcccctga ggttgtctcc 840
agaaacggtc actcctgcca gtaggacatc tgggctctgg gctgcatcat gtacacgggtg 900
ctgactggca cccaccctt catggcctca cccctgtcgg agatgtacca aaacatccgt 960
gagggccact acccgaacc cgctcacctg tctgccaatg cgcgccgcct catcgtgcac 1020
ctcctagcac ccaaccggc cgagcggccc agcctggacc acctgctgca ggacgacttc 1080
ttcacacagg gtttactcc agaccggctg ccggcccact cctgccacag tcccccatc 1140
ttcgccatac cccgcctct gggcaggatc ttccggaagg tgggccagcg gctgtcacc 1200
cagtgccggc caccctgcc cttcacgcct aaagaggcct cgggtccagg agaaggtggg 1260
ccagaccctg actccatgga gtgggacggc gagagctccc tgtctgcgaa agaggttccc 1320
tgcttgaag gcccatacca cctggtcgca caagggatcc tgcagagtga cctggccggg 1380
cccgagggga gccggcggcc agaggtggag gcggccctca gacacctgca gctgtgcctg 1440
gatgtaggcc cccggccac acaggacccc ctgggagagc agcagcccat cctctgggcc 1500
cccaaatggg tggattattc cagcaaatac ggctttggct accagctctt ggacgggggg 1560
cgcacgggac ggcaccaca tggccctgtg acccccgga gggaggggac cctccccaca 1620
cctgtgccac ctgctggacc cgccctctgc ctctgcgt tcctggcctc tgagcacgcc 1680
ctgctgctgc tgttcagcaa tgggatggtg caggtgagct tcagtggagt cccggcccaa 1740

ctggtgctga gtggcgaggg tgagggtttg cagctcacc tctgggagca ggggtccct 1800
 ggcacctcct actccctgga cgtcccgcag agccacggct gcgccccac caccggacag 1860
 caccttcacc acgccctccg catgctgcag agtatctagt gccctgagg gtcagagtgg 1920
 acccctgcat ggtagtgcca gggacccagg ctccatttcc attcctgtgg ctccccaga 1980
 ggggctgtcc tgggggagag ctggggggca cacgggaggt gggttcttgc cttgtggcat 2040
 gactgttcaa ccagacttt gctgggatct ctccctttt cattaaagac aatttgaaat 2100
 gctgt 2105

<210> 966

<211> 1985

<212> DNA

<213> Homo sapiens

<400> 966

tttatattga gaccagctt ggagtgcagt ggcgttatct cggctctctg caacctctgc 60
 ctcttgggtt caagcgattc tctgcctca gcctcccag tagctgggac tatgtgtggg 120
 agccaccatg cctggctaata tttttgtat tttcataga gacgggtttc accatgttgt 180
 ccaggctggt cttgaattcg tggcctcaag tgatccgcc acctcagcct cccacagtgc 240
 tgggtttata ggtgtgagcc accacacccg gctaattgtt ttgtatttt agtagagacg 300
 gagcttact atgttgga ggttggtcgt aactcctgac ctcaagtgat cgcgccacct 360
 cagcctcca aagtgtggg attacaggcg tgagccaccg cggccgagca gaacacgttc 420
 taggaccctt gttcatgtgt ccatcatgga caggaggacg tgcgggccat agggaccctg 480
 gctcattccg gagccgggac tggagggtgg ggcgtcacc ttgggaacac ccgtgcccac 540
 cctccgctgc ccagggtagg ggtggggagc caggctttgg gcccacttg ataaagtccc 600
 ctcccagac tccacaggca aatactggac ggtgggcagt gactccgcgg tcaccagcag 660
 cggcgacact cctgtggact tcttcttcga gttctgcgac tataacaagg tggccatcaa 720
 ggtgggcggg cgctacctga agggcgacca cgcaggcgtc ctgaaggcct cggcggaac 780
 cgtggacccc gcctcgctct gggagtacta gggccggccc gtccttcccc gcccctgccc 840

acatggcggc tcctgccaac tctccctgct aaccccttct ccgccaggtg ggctccaggg 900
 cgggaggcaa gcccccttgc ctttcaaact ggaaacccca gagaaaacgg tgccccacc 960
 tgtcgcccct atggactccc cactctcccc tccgcccggg ttccctactc ccctcgggtc 1020
 agcggctgcg gcctggccct gggagggtt tcagatgccc ctgccctctt gtctgccacg 1080
 gggcgagtct ggcacctctt tcttctgacc tcagacggct ctgagcctta tttctctgga 1140
 agcggctaag ggacggttgg gggctgggag ccctgggcgt gtagtgtaac tggaatcttt 1200
 tgccctctcc agccacctcc tcccagcccc ccaggagagc tgggcacatg tccaagcct 1260
 gtcagtggcc ctccctggtg cactgtcccc gaaacccctg cttgggaagg gaagctgtcg 1320
 ggtgggctag gactgaccct tgtggtgttt ttttgggtgg tggctggaaa cagcccctct 1380
 cccacgtggc agaggctcag cctggctccc ttccctggag cggcagggcg tgacggccac 1440
 agggctctgcc cgctgcacgt tctgccaagg tgggtggtggc gggcgggtag ggggtgtgggg 1500
 gccgtcttcc tctgtctctt ttcctttcac cctagcctga ctggaagcag aaaatgacca 1560
 aatcagtatt ttttttaatg aaatattatt gctggaggcg tcccaggcaa gcctggctgt 1620
 agtagcgagt gatctggcgg ggggcgtctc agcacctcc ccagggggtg catctcagcc 1680
 ccctctttcc gtccttcccg tccagcccca gccctgggcc tgggctgccg acacctgggc 1740
 cagagcccct gctgtgattg gtgctccctg ggccctcccgg gtggatgaag ccaggcgtcg 1800
 ccccctccgg gagccctggg gtgagccgcc ggggcccccc tgctgccagc ctccccgctc 1860
 cccaacatgc atctcactct ggggtgtcttg gtcttttatt ttttgtaagt gtcatttgta 1920
 taactctaaa cgcccatgat agtagcttca aactggaaat agcgaaataa aataactcag 1980
 tctgc 1985

<210> 967

<211> 2104

<212> DNA

<213> Homo sapiens

<400> 967

gatgggaatg tggagcagac cctcgtccac tccggaggcc gagggctctc cgggcttccg 60

aaggaagccg acctcaacgc tggacgcttc ttggagaatg attgcgttga gtggagatgt 120
ggtctgtcta taaaaggccg ggaggggaaca atatctgtta ccactcagtc cgtctctaaa 180
gagacactct ttaccgctga aaacctcaag agtgagcact cccacgcccc cgtctctgggt 240
cctacctggg tccaaggccg atgtgaagtg gacaagtcca gtaaggcagg catcatgcca 300
cagcagctcc tgatcacctt gcctaccgag gccagcacct ggggtgaagct gcaacatcca 360
aagaaggccg tggagggggc gccctgtgg gaggatgtga ctaaaatgtt tgaaggagaa 420
gctctgtctgt ctcaggatgc tgaggacgta aagaccaga gagaaagttt agaggatgaa 480
gtgaccttg gactcccgac agcagaatcc caggaattgt tgactttcaa ggacatatct 540
attgacttca cccaggaaga gtgggggcag ctggctcctg ctcaccagaa tctataccga 600
gaggtgatgc tggagaacta cagcaacttg gtgtcagtgg gatataact ttccaaacct 660
agtgtgatat cccagttaga gaaaggagaa gagccatgga tggcagagaa agaaggccca 720
ggagatccca gttcagactt gaagagtaaa atagaaacca ttgagtcaac tgcaaagagt 780
accatttcac aggagcgctt atatcatggc attatgatgg aaagtttcat gagggatgat 840
ataatttatt ccacgttgag aaaagtctcc acatatgatg atgtcttaga aaggcaccag 900
gaaacttgta tgagagatgt gagacaagcc atcttgacct ataagaagag agtccaagaa 960
actaacaat ttggggaaaa tatcattgtg cattcaaatg ttattattga acagaggcac 1020
cataaatatg atacacctac aaagcggaac acatacaaat tagatctgat taatcatcca 1080
acaagttaca taagaacaaa aacctatgaa tgtaatatat gtgaaaaaat cttcaaacaa 1140
cctattcacc ttactgaaca tatgagaatt catactgggtg agaaaccttt cagatgtaag 1200
gaatgtggaa gggccttttag tcaaagtgc tccctcagta cacaccagag aatccatact 1260
ggtgagaaac cctttgaatg tgaggaatgt gggaaagcct tcagacatcg ctcactactt 1320
aatcagcatc atagaactca cactggggag aaacctatg tatgtgataa atgtcagaaa 1380
gctttcagcc agaacattag cttggttcaa catttgagga ctcattctgg agagaaacct 1440
tttacttgca atgaatgtgg gaaaaccttt agacagatta gacaccttag tgaacatata 1500
agaattcata ccggggagaa gccctatgca tgcactgcat gttgtaaaac ctttagtcat 1560
agagcgtatc taacacatca ccagagaatc catactgggg agagacccta caaatgtaaa 1620
gaatgtggaa aagccttttag gcagaggata caccttagca accataaaac tgttcataca 1680
ggagtgaag catatgaatg caaccgctgt ggaaaagcct ataggcatga ttcactcttt 1740
aaaaaacatc agagacatca cactggagaa aaaccttacg aatgtaacga atgtggaaaa 1800

gccttcagct aaaactcttc acttagtcga catcatgaaa tacacaggag gaacgccttc 1860
cgaaataagg tgtaaaaaca gatatttgac ttgagaacaa aagccaagtg taaattgggtg 1920
atttagagtg ctttaaaatt tcaggactca gatatgagga attgatgtaa tgatgccaac 1980
ttttaatttt tcccattgta aataaacatt acattgacag gtattgacta ctaacacctc 2040
taaaaagtac ttaagattaa aatctggtcc ttaaaattaa atgaattcag cattatgaaa 2100
aatt 2104

<210> 968

<211> 2431

<212> DNA

<213> Homo sapiens

<400> 968

gtcctgaatt ggaaagtgag cggagtgtga cgggttccca tcttgaaccg tccggggttg 60
agtagtacia taaactaaca cggaactcca gcttccaaaa ttctctccag tgcctacaga 120
gcctcgcgga gagctgtgat tgtgaatgtc aacgcagatt tgattaaatc tcttagattt 180
aagagatatg tggagtcatt acaatagaaa tgtgtacaag tgaacacatt tcttagcccc 240
tttccccact gcctgtgtga ttataaaaa cgcaaatata aaatatttcc gttccagcag 300
agacgccgct tgctacggcg gggtgcccgt ctccacaggt atctccggct gactctagag 360
ctcaacttcc cttttaact tcaccctgcg cttgccgatt tgcttcggga atgcccagagg 420
caccggacga agcagtcggg tctggcccca gtcgactcca gccaggcggg gctccaagcc 480
gagactcctg cacgcccggc ccgaagctag cccgacaccc tcagctgagt cctccgccgt 540
cccagcattc cctgcgtccc taccatcgag agcagcttcc ggcgtggctg gtgtaggcgg 600
gtggagaagg atcgggggcc tcgccgtct gtctcattcc ctgcgctct ctcgggcaac 660
atggcgggtg tggaggaggt agcggcctcc gggagccacc tgaatggcga cctggatcca 720
gacgacaggg aagaaggagc tgcctctacg gctgaggaag cagccaagaa aaaaagacga 780
aagaagaaga agagcaaagg gccttctgca gcagggggaac aggaacctga taaagaatca 840
ggagcctcag tggatgaagt agcaagacag ttggaaagat cagcattgga agataaagaa 900

agagatgaag atgatgaaga tggagatggc gatggagatg gagcaactgg aaagaagaag 960
 aaaaagaaga agaagaagag aggacaaaaa gttcaaacag accctccctc agttccaata 1020
 tgtgacctgt atcctaattg tgtatttccc aaaggacaag aatgcgaata cccaccacaca 1080
 caagatgggc gaacagctgc ttggagaact acaagtgaag aaaagaaagc attagatcag 1140
 gcaagtgaag agatttgga tgattttcga gaagctgcag aagcacatcg acaagttaga 1200
 aaatacgtaa tgagctggat caagcctggg atgacaatga tagaaatctg tgaaaagtgt 1260
 gaagactgtt cacgcaagtt aataaaagag aatggattaa atgcaggcct ggcatttctt 1320
 actggatgtt ctctcaataa ttgtgctgcc cattatactc ccaatgccgg tgacacaaca 1380
 gtattacagt atgatgacat ctgtaaaata gactttggaa cacatataag tggtaggatt 1440
 attgactgtg cttttactgt cacttttaat cccaaatatg atacgttatt aaaagctgta 1500
 aaagatgcta ctaacactgg aataaagtgt gctggaattg atgttcgtct gtgtgatgtt 1560
 ggtgaggcca tccaagaagt tatggagtcc tatgaagttg aaatagatgg gaagacatat 1620
 caaagaagga gaagtatatg caattgaaac ctttggtagt acaggaaaag gtgttggttca 1680
 tgatgatatg gaatgttcac attacatgaa aaattttgat gttggacatg tgccaataag 1740
 gcttccaaga acaaaacact tggttaaagt catcaatgaa aactttggaa cccttgccctt 1800
 ctgccgcaga tggctggatc gcttgggaga aagtaaatac ttgatggctc tgaagaatct 1860
 gtgtgacttg ggcattgtag atccatatcc accattatgt gacattaaag gatcatatac 1920
 agcgcaattt gaacatacca tcctgttgcg tccaacatgt aaagaagttg tcagcagagg 1980
 agatgactat taaacttagt ccaaagccac ctcaacacct ttattttctg agctttgttg 2040
 gaaaacatga taccagaatt aatttgccac atgttgtctg ttttaacagt ggacccatgt 2100
 aatactttta tccatgttta aaaaagaagg aatttggaca aaggcaaact gtctaagtga 2160
 attaaccaac gaaaaagctt tccggacttt taaatgctaa ctgtttttcc ccttcctgtc 2220
 taggaaaatg ctataaagct caaattagtt aggaatgact tatacgtttt gttttgaata 2280
 cctaagagat actttttgga tatttatatt gccatattct tacttgaatg ctttgaatga 2340
 ctacatccag ttctgcacct ataccctctg gtgttgcttt ttaaccttcc tggaatccat 2400
 tttctaataa ataaagacat tticagatct g 2431

<210> 969

<211> 2640

<212> DNA

<213> Homo sapiens

<400> 969

```
attacagctt gtagggccag gagtttgaga ccacctctggg caacatgatg agacaccgtc 60
tctaaaataa aattagctgg gtgtggtggt gcaccgcctg tgggtcccagc tcctcagagg 120
ttgagtagag gctgaggtga gcgagcact tgagccagga gtatgaggct gcagttagcc 180
catgagcccc accactacac tccagcctgg aagacaccat gacacacagg cctggatggg 240
gaaagagtcc tgctgttgat cctcacatgt ttcctgggca cctaactctg tcagccactg 300
ccagggacca aggatccagc atccatggca cccctgggtc ctgccatcct ggggtaccgc 360
attcaaagaa ggactctgct ccctgtctga gaccaccccc ggctctgact gagagtaagg 420
ggactgtcag ggcctcgact tgccattggt tggggctcgta cggggctggg agccctgcgt 480
tttgaggcag accactgccc ttccgacctc agtcctgtct gctccagtct tgcccagctc 540
gaaggagagc agatctgacc acttgccagc ccctgtctgc tgtgaattac catttccttt 600
gtccttcctt tagttgggtc tattagctca gattgagagg tgttgcccta aaactgagtt 660
gggtgacttg gtacctgctc aggaccccc gcactgtccc aatcccactc aggcccacct 720
ccagctggcc tcaactccgt ggtgacttcg tacctgctca ggagccccca ctgtcccagt 780
cccactcagg cccatctctg gctggcctca ctgcgctggg actccgcctt cataaggaga 840
gctcactgct cacgttagta gatggcccc tctcgtgagg cctctcccct ggcacctgct 900
tcagttgtcc tccacagcac tgatttgag cccacaagct ggcaggttta tctgtctcat 960
gtttgtcttg tgctggtggg caaggggttt gtctagcaca ccagcatata atgagatgct 1020
tgatgaatgg tgcatgttga atgtataaag cccaccggtc ctgagagttt gctcactgga 1080
gactttctgg agatggagtc tcgctctggt gccaggctg gcgagtgcaa tggcgcgata 1140
ttggctcact gcaacctcca cctcctgggt tcaagcgatt ctctgcctc agcctcccga 1200
gtagctggga ttacaggtgg gtgtcaccac acccagctca gtattgtatt tttagcagag 1260
atgggggttc accattttgc ccaggctggt ttggaactcc tgacttcaaa ttaccacct 1320
gcctcagcct cccaaagtgc tggcattaca ggcgctcgag gctttctgat gtggctgctg 1380
ctgctcagaa ggccttgtcc ttaaccacct ccttgccctgc cctggaggct tgtgcctcta 1440
```


ggccccaccc cctgtggagt cctgctggct ttctccatcc ctatctgaat cctccctgct 1500
gtgtggcctc ccctggcttc atccgtaaca cagcccagct tagtgggcct ctgttcctgc 1560
gggtggccag cctgtctgtg tggctgggct ggggaggcca cgtctggtat ctgaatgcta 1620
tcggtgggtt ggggtggagg aaccagaaga gggctggagg gagggagatg gtctcagccc 1680
cacagagttt ggagtcctca gtgtgctgag caaacgtgga gacaccattt ccctcctcta 1740
gacctcatct tggagagaga gatgttggat ggggccatct attccagctt tattcacaca 1800
aatcatgtct gttggcctgg aaattggaga accagttaaa ccaaaaacat gatattaaga 1860
aaacaggcag gctcaccata gtaaaaatgc tgaaagccaa agacaaaatt gggagaacaa 1920
aagaaaagcg tcttgtcaca tacagaaggt ccctgataaa gttagtagct gccctcatca 1980
gaaaccaggc ccaggcagtg gggacacatc cagagtgtctg aaagaacctc ccccaggctca 2040
tcctatcccc aagagtgatg cccggcagca ttcccagctc agggctaata gttcacggaa 2100
gccaggaatc aaactgcctg ggttccagtc ccagctctgc cagttatgcc cagctgtggg 2160
gacttgggca gctcgtttag tagcacctg cctcagtttc ccatatgtaa aaggccattt 2220
tgagtgcctt tcacagccct gcataaggca ggtgtctcag tgttactgc tgtctctcca 2280
gctcttagtc cagtagctgc atggtgagtg agcgtagggc gcaccctgga aggctgccaa 2340
gccccaaagt gtgcagagcg ctggggactc cagactcccc acagcagcag agactcggga 2400
ctgaggcatc ctctgttcac aggacatgct ggcatctact gggtcagggc tctgctgctc 2460
ggtggctgtg caaccttggg caagttcctc aacctctctg tgtcttcgta ccctcatctg 2520
taacatgcgt gtcgatagac cctactactc agggttgatg agaagattaa atgtgcaaaa 2580
cctgcttgac tgtgcccaca aatcctgatt gtaggaataa attaatagact tttataaat 2640

<210> 970

<211> 1986

<212> DNA

<213> Homo sapiens

<400> 970

aagttcggcg gggaagatgg cggatgacaa ggattctctg cctaagctta aggacctggc 60

atttctcaag aaccagctgg aaagcctgca gcggcgtgta gaagacgaag tcaacagtgg 120
agtgggccag gatggctcgc tgttgctctc cccgttcctc aagggtattcc tggctggcta 180
tgtggtggcc aaactgaggg catcagcagt attgggcttt gctgtgggca cctgcactgg 240
catctatgcg gctcaggcat atgctgtgcc caacgtggag aagacattaa gggactattt 300
gcagttgcta cgcaaggggc ccgactagct ctaggtgcca tggaagaggc aggatgagca 360
gctcagcctt caggtggaga cactttatct ggattcccca gctgtcatcc atttgctatc 420
tccaactttc ctgccacctt catccttgcc tcccttcctg cagattgtgg acagtagttc 480
ctcagcctgc accctggatt ccttcttccc ctctctagct ccatgggact cgccccaaga 540
ctgtggcttc aaggaccacc agccccctac tcttcaagcc ctaactgtgg agttggtaga 600
tgctctgat cctcagtatt ctctctggca atgttccacg gcttctcctt cctgggagct 660
ggctccataa ctgtattttc cccaaacgtg ttgcaatccc tgctgcccct ggcacttcag 720
aacctcttcc tctacacttt tgggtgtgctt ctgaatctag gtctgcatgc tggcggcggc 780
tctggcccag gcctcctgga aggtttctca ggatgggcag cactcgtggt gctgagccag 840
gcactaaatg gactgctcat gtctgctgtc atgaagcatg gcagcagcat cacacgcctc 900
tttgtggtgt cctgctcgtt ggtggtcaac gccgtgctct cagcagtcct gctacggctg 960
cagctcacag ccgccttctt cctggccaca ttgctcattg gcctggccat gcgcctgtac 1020
tatggcagcc gctagtcctt gacaacttcc accctgattc cggaccctgt agattgggcg 1080
ccaacaccag atccccctcc caggccttcc tccctctccc atcagcagcc ctgtaacaag 1140
tgcttgtga gaaaagctgg agaagtgagg gcagccaggt tattctctgg aggttgggtg 1200
atgaaggggt acccctagga gatgtgaagt gtgggtttgg ttaaggaaat gcttaccatc 1260
ccctaccccc aaccaagttc ttccagacta aagaattaag gtaacatcaa tacctaggcc 1320
tgagaaataa ccccatcctt gttgggcagc tccctgcttt gtcctgcatg aacagagttg 1380
atgaaagtgg ggtgtgggca acaagtggct ttccttgctt actttagtca cccagcagag 1440
ccactggagc tggctagtcc agcccagcca tgggtgcatga ctcttcata agggatcctc 1500
acccttccac tttcatgcaa gaaggcccag ttgccacaga ttatacaacc attacccaaa 1560
ccactctgac agtctcctcc agttccagca atgcctagag acatgctccc tgccctctcc 1620
acagtgtgc tccccacacc tagcctttgt tctggaaacc ccagagaggg ctgggcttga 1680
ctcatctcag ggaatgtagc ccctgggccc tggcttaagc cgacactcct gacctctctg 1740
ttcacctga gggctgtctt gaagcccgt acccactctg aggctcctag gaggtaccat 1800

gcttcccact ctggggcctg cccctgccta gcagtctccc agctcccaac agcctgggga 1860
 agctctgcac agagtgacct gagaccaggt acaggaaacc thtagctcaa tcagtgtctc 1920
 ttttaactgca taagcaataa gatcttaata aagtcttcta ggctgtaggg tggttcctac 1980
 aaccac 1986

<210> 971

<211> 1613

<212> DNA

<213> Homo sapiens

<400> 971

agatcggagg cggcccgcgc cgggccccac attcagggtt tgggggttca ttcgccgcgc 60
 cgcccgccgc tgcttcaggc cctccgcttc ggctcggagc cccgggaccc ctaacctcca 120
 gggccctcac cttggaccgc cctccctgcc tcccaccgc cgcctttacc tgcttctgga 180
 gcgggcagag ggcgtcgaag ccggtgccgc gtcgtcgaac gcacaacgcg gcgccgcaga 240
 aagggtctca ctcttttgcc caggctgggg tgactggca ctatctcggc tactgcaac 300
 ctctgccttt ggaactcgaa ggatcatccc acctcagcct cccaggcctg ccagacacct 360
 gcgcccctct gcagccaccg ccacagctgc cagcatgtct ggcccagaca tcaagacgcc 420
 gaccgccatc cagatctgcc ggattatgcg gacgctaatt tggcccgcaa tgtctaggcg 480
 ggaccatcct gaagatgac aaagaggcgg gcgccatcat cagcaccgg cattgcaatc 540
 cgcagaacgg ggatcgctgt gtggccgctc tggctcgggt cgagtgcacc cacttctgt 600
 ggcccatgtg catcggtag gtggcccacg tcagcgcgga gatcacctac acctccaagc 660
 actctgtgga ggtgcaggtc aacatgatgt ccgaaaacat cctcacagggt gccaaaaagc 720
 tgaccaataa ggccaccctc tggatatgcg ccctgtcgct gacgaacgtg gacaaggctc 780
 tcgaagagcc tcctgtttgt tatttccggc aggagcagga ggaggagggc cagaagcggt 840
 acaaaacca gaagctggag cgcattggaga ccaactggag gaacggggac atcgtccagc 900
 cagtcctcaa cccagagccg aacactgtca gctacagcca gtccagcttg atccacctgg 960
 tggggccttc agactgtacc ctgcacagct tcgtgcatga aggggtgacc atgaaggctca 1020

tggacgaggt cgccgggatc ttggctgcac gccactgcaa gaccaacctc gtcacagcct 1080
 ccatggaggc cattaatttt gacaacaaga tcagaaaagg ctgcatcaag accatctccg 1140
 gacgcatgac cttcacgagc aataagtccg tagagatcga ggtcttggtg gatgccgact 1200
 gtgttgtgga cagctctcag aagcgctaca gggccgccag tgtcttcacc taagtgtcgc 1260
 tgagccagga aggcaggctc ctgcccattgc cccagctcgt gctggagacc caggacgaga 1320
 agggctttga ggcctggctc ggtggctcac gcctgtaatc ccagcacttt gggatgctga 1380
 ggcaggcgga tcaattgacg tcaggagtgc aagaccagcc tggccagcat ggcggaaccc 1440
 cgtctctact aaaaatgcag aacttaactg ggctgtggtg cgggcgcctg tgatcccagc 1500
 tactcgggag gctgaggcag gacaatctct tgaacctggg aggcggaggt tgcggtgagc 1560
 cgagatcgtg ccactgctct ccagcctggg caacaggagc gagactccgt ctc 1613

<210> 972

<211> 1729

<212> DNA

<213> Homo sapiens

<400> 972

agtgcctcgc tgctgcctag gagacaagac gcgaggccgg cagcgccac ccggtcgcaa 60
 tggagcttcc cctagggcgg tgcgatgatt cccgcacctg ggacgatgac tcggaccag 120
 agtcagagac agaccagac gcgcaggcca aggcctacgt ggcccgcgtt ctcagtcgc 180
 caaaatccgg gctggcgctc tcgcgccct cgcagctatc cacaccgcc gcgtccccga 240
 gcgcttcgga gcctcgggcc gcgtccaggg ttctggccgt aagtgagccg ggccttctga 300
 gccttcccc ggagctgctg ctcgagatct gctcctacct ggacgcccgc ctcgtgctcc 360
 acgtcctgtc gcgggtgtgc cagcgctcc gcgacctgt gtctgacct gtcacctgga 420
 ggctacgcgc gctacgccgc gtacgcgcgc cctaccaggt ggtggaagag aagaactttg 480
 actggccggc agcctgcatt gcgctggagc agcacctgtc ccgctgggca gaggatgggc 540
 gctgggtcga atacttctgc ctggccgaag gccacgtggc ttccgttgac tcagtgtgc 600
 tgctccaggg tgggtcactc tgtctgtcgg gctcccagga tcgcaacgtc aacttgtggg 660

acctgcggca gctggggacg gagtccaacc aggttctgat caagacctta ggcactaagc 720
gaaatagtac ccatgagggc tgggtgttgt cactggcagc gcaggaccac cgcgtgtgct 780
ccggctcctg ggacagcaca gtgaagctct gggacatggc agcggatggg cagcagttcg 840
gcgagataaa ggccagctca gccgtgctgt gcctctccta cctgcctgac atcctggtga 900
ctggcaccta tgacaagaag gtgaccatct acgaccccag agccggccca gccctgttga 960
agcaccagca actacactcc agaccctgct tgaccctgct ggcggatgac cggcacatca 1020
tctcaggcag cgaggaccac accctggtgg tgggtggaccg ccgagccaac agcgtcctgc 1080
agcgtctgca gctggactcc tacctgctct gcatgtccta ccaggaacct cagctctggg 1140
ctggtgacaa ccagggcctg ctgcacgtct tcgccaaccg caacggctgc ttccagctta 1200
tccggtcctt tgatgtgggc cacagcttct ccatcactgg gatccagtac tccgtgggag 1260
ccttgtacac cacatccact gacaagacca tccgggtgca cgtgcccaca gaccaccaa 1320
ggaccatttg caccgaagg catgacaatg ggctcaatag ggtctgtgct gagggcaacc 1380
tgggtgtggc cggctctgga gacctgtgc tagaggtctg gaggtgcag gcctgagcag 1440
gtgggcgtgg atgtggatac tgcctccgg aggctgggct tcctcctctg ttcttggggg 1500
accatcccca atgttgggtgc tgcctccgcc ccgtgggcct agggcacaag gagtcccagc 1560
cacattcggg tgagcgtcct ggcctgggcc ctatgcccgg gggaagggtg aaattggggg 1620
tcaggccac ccagggggcc gcttcccact cttgggccct ggttttgtta tgatttggat 1680
gccccgtct cagttgagag cgaaggagaa ataaacctga catgttggt 1729

<210> 973

<211> 2556

<212> DNA

<213> Homo sapiens

<400> 973

caatacccaa gacatgttca gccctgatca gagctcaatg cccatgagca acgtgggcac 60
caccggctc agccacatgc ctctgcccc tgcgtccaat cctcctggga ccgtgcattc 120
agccccaac cgggggctag gcaggcggcc ttcggacctc accatcagta ttaatcagat 180

gggctcaccg ggcatggggc acttgaagtc gcccaccctt agccagggtgc actcaccctt 240
ggtcacctcg ccctctgcca acctcaagtc accccagact ccctcacaga tgggtgccctt 300
gccttctgcc aaccgcccag gacctctcaa gtcgccccag gtcctcggct cctccctcag 360
tgtccgttca cccactggct cgcccagcag gctcaagtct ccttccatgg cgggtgccttc 420
tccaggctgg gttgcctcac ctaagacggc catgcccagc ccgggggtct cccagaacaa 480
gcagccgcct ctcaacatga actcttcac caccctgagc aacatggaac aggggtacct 540
cccgccatagc ggcccccgga gcagctctc agcacctccc gccaacctc ccagcggcct 600
catgaacccc agcctaccat tcaattctc cccagacccc acaccttccc agaaccctt 660
gtcactgatg atgaccaga tgtccaagta cgccatgccc agtccaccc cgctctacca 720
caatgccatc aagaccatcg ccacctcaga cgacgagctg ctgcccgacc ggccccgtgt 780
gcccccccca ccaccaccgc aggggtccgg gccagggatc agcaacagcc agcccagcca 840
gatgcacctg aactcagccg ctgcccagag ccctatgggc atgaacctgc caggccagca 900
gcccctgtcc catgagcccc cgcccgccat gctgccctcc cccaccctc tgggtccaa 960
cattccactg catcccaacg cacaggggac agggggggccc cctcaaaact ccatgatgat 1020
ggccccaggg ggccccgact ccctgaatgc cccctgtggc ccagtgccca gctcctccca 1080
gatgatgccc ttccccctc ggctgcagca gcccctgggt gccatggccc cactggggg 1140
tgggggcggg gggcctggcc tgcagcagca ctaccgtca ggcatggccc tgcctccga 1200
ggacctgccc aaccagccgc caggccccat gcctccccag cagcacctga tgggcaaagc 1260
catggctggg cgcatgggcg acgcataccc accgggtgtg ctccctgggg tggcatcagt 1320
gctgaacgac cccgagctga gcgaggtgat ccggcccacc ccaacgggga tccccgagtt 1380
cgacttgtcg aggatcatc cctctgagaa gccaaagcagc accctccagt acttcccaa 1440
gagcgagaac cagccccca aggtcagcc ccctaactg catctcatga acctgcagaa 1500
catgatggcg gagcagactc cctctcggcc tcccaacctc ccaggccagc agggcgctca 1560
gcgggggctc aacatgtcca tgtgccacc cggacagatg tccttgctgg gcaggacagg 1620
cgtgccccca cagcagggga tggtgccca tggcctgcac caggggggtca tgtccctcc 1680
acaaggctc atgaccagc agaatttcat gctgatgaag cagcggggcg tggggggcga 1740
ggtctacagc cagccgcccc acatgtctc cccgcagggc tccctcatgg gcccccgcc 1800
ccagcagaac ctcatggtgt cccaccctt tcggcagcgc agtgtgtccc tggacagcca 1860
gatgggctac ctcccggcac caggcggcat ggccaacctg cccttctaga agtcgctgcc 1920

agggctggag ccggggcaat gttgcaaata cgataacctt aacaaagttc ttcccctcaa 1980
 tgttgggatg gcctgggtcg cggggtgggg tggagggggg gggagggggc ttgtgtaggg 2040
 agtggcattt gtggaacca gatgtgctgg cagcttaggg ggaagtggca gtgtgggggtg 2100
 ggggattttg cattgggggtt ggtcccatth cggccaccag gactgcccct cccccactcc 2160
 tcccaattcc tatggagcct ctctatthta cctctttccg tgcattccctg caccgcccac 2220
 acccccttca gctatgctth tggagtcctg gatgggaatc tggggggaga gaggaaggac 2280
 aggtcaggtc tccccagcc cttctgctc ctgtctctc gtgtccgcat tgctggagct 2340
 ccacctccct cttggthttt cgcacccgc ccattthcct tctgtctthta cctgcttctg 2400
 atcctthccc tgctgatgtg gctgacctt cttccacccc tccctgcagg cggctggcca 2460
 ggtgggcagg tgccagccgg agctgtaaat agagcgctgc gctthtgtgc tggthtgtgc 2520
 gtgtgctgta thttctgtgt ttgatagaag tcacac 2556

<210> 974

<211> 2150

<212> DNA

<213> Homo sapiens

<400> 974

gcaggaggcg gtggagcgca gagcgggcga gcgcgaaaaa tcactaccaa tataatggat 60
 thttatatatc agattgctth attctggata tcatggtaac aatacagaaa gtatacataa 120
 thttcccatth ctgcaagtag tcatgactgc tgaagaaaga aaactthaaa gctacggcag 180
 aattatthta tggaaattct gatthtgtth ttaattthtg ataactthth actaaaggta 240
 tgaacacaca aagagcttat thttgttaggc aaatacacat taataagaat gcctagaaga 300
 ggactgattc thcacacccg gacctactgg ttgtgttgg gccttgctth gctctgcagt 360
 thtggtattat ttatgtacct cctggaatgt gccccccaga ctgatggaaa tgcattctct 420
 cctggtgttg thggggaaaa ttatggtaaa gagtattatc aagccctcct acaggaacaa 480
 gaagaacatt atcagaccag ggcaaccagt ctgaaacgcc aaattgcca actaaaacaa 540
 gaattacaag aatgagtga gaagatgcgg tcaactgcaag aaagaaggaa tgtaggggct 600

aatggcatag gctatcagag caacaaagag caagcaccta gtgatctttt agagtttctt 660
cattcccaaa ttgacaaagc tgaagttagc ataggggccca aactaccag tgagtatggg 720
gtcattccct ttgaaagttt taccttaatg aaagtatttc aattggaaat ggggtctcact 780
cgccatcctg aagaaaagcc agttagaaaa gacaaacgag atgaattggt ggaagttatt 840
gaagcgggct tggaggtcat taataatcct gatgaagatg atgaacaaga agatgaggag 900
ggcccccttg gagagaaact gatatttaat gaaaatgact tcgtagaagg ttattatcgc 960
actgagagag ataagggcac acagtatgaa ctctttttta agaaagcaga ccttacggaa 1020
tatagacatg tgaccctctt ccgccctttt ggacctctca tgaaagtgaag gagtgaatg 1080
attgacatca ctagatcaat tattaatatc attgtgccac ttgctgaaag aactgaagca 1140
tttgtacaat ttatgcagaa cttcagggat gtttgtattc atcaagacaa gaagattcat 1200
ctcacagtgg tgtattttgg taaagaagga ctgtctaaag tcaagtctat cctagaatct 1260
gtcaccagtg agtctaattt tcacaattac accttggctc cattgaatga agaatttaat 1320
cgtggacgag gactaaatgt ggggtgcccga gcttgggaca agggagaggt cttgatgttt 1380
ttctgtgatg ttgatatcta tttctcagcc gaattcctta acagctgccg gttaaagtct 1440
gagccaggta agaaggtgtt ttaccctgtg gtgttcagtc ttacaatcc tgccattgtt 1500
tatgccaacc aggaagtgcc accacctgtg gagcagcagc tggttcaca aaaggattct 1560
ggcttttggc gagatttttg ctttggaatg acttgtcagt atcgttcaga tttcctgacc 1620
attgggtggat ttgacatgga agtgaaaggt tgggggtggag aagatgttca tctttatcga 1680
aaatacttac atggtgacct cattgtgatt cggactccgg ttcttgggtc tttccacctc 1740
tggcacgaaa agcgctgtgc tgatgagctg acccccgagc agtaccgcat gtgcatccag 1800
tctaaagcca tgaatgaggc ctctcactcc cacctgggaa tgctgggtctt caggaggagaa 1860
atagagacgc atcttcataa acaggcatac aggacaaaca gtgaagctgt tggttgaaat 1920
cataattaat gcgttactgt atgaaccaca aaacagcact atttatttag ccttacttct 1980
acttcagat gcagtgcctc ttttggagaa gacatgttta tttttcatgt tctttctgac 2040
attactttag caattcaact tgatgtgaga agaaaaaaca aatgtttcaa cacaaaatct 2100
ctattttgtg agaatactgc actatggaat aattgacaaa ttgaaatctc 2150

<210> 975

<211> 2523

<212> DNA

<213> Homo sapiens

<400> 975

```
gttcctaagt actccactgg cttaccaagt ataggattac cctttgatta ctttatctgg 60
ctaccaggac agagagattc ttgggagcca accagccatc aggtcaacta ttttgctaca 120
gatactgctt tctgggttta gtcccctgta ctttcaggtc ttcagcctca gtttgacttc 180
ctggcttctt cagtgaggat tttagagtta tgtcagaaca gtggttggtta ggatggcgga 240
gacatggact tcagagagtt cttggtagaa gactcaaaga gccacctgtc atgagacatc 300
ccacttcctt ccccaggtta cttccaagac tgagcagcca ggtttttggt agatgagaac 360
aaatgtttct tcctgaagcc ctggggcttc aggtaggaag aaggactgct atacttgttc 420
tcacccttgg cttctggctg ctccagttaa acatggttcc cattgataca gacattagag 480
tgggaaagga cttcgttcat agaccgaaga ccctcaaagg aaagtccttc catTTtggga 540
agggtgacat tgatttcgtt tagctgctta agatatgtac ttgctgttgt cttgtgagac 600
atgacatctg aagctgaaga ggagtccttc tcattgttgt cattgtccca ccgggactga 660
aagtctccca gttgaggcag catTTtagct ttgatgtcta cagggcaatc atggatcagg 720
aaatttctgc aaattagact tggaaaacaa ggtcttgatc cttcttgtct ttggacgaag 780
actaatcatc acttttgact gaaggtgtag tgctggagac tatgttggag gcagcacctg 840
atgcactatc catattcttc cccttgatct tgtcttaaag tttccaaat ggattccgag 900
gcttgtcttt gatgaaaagg tcaaacatac tggcagtcac gttgtttctc ataagctgga 960
tgtcaacctc aatttctcct ctttatacct ctctcctggg ttggatttca aggtatacca 1020
ccgcatcttc ctgctcccct agtctgggtg caggtcctgc aggtacacct cggcgaagcc 1080
caagtacagt agcagcagca cctcaaagggt ggccctcctcc tctgacactg aggtggcata 1140
cttctcctta cccacctgaa tcaccgagta catgttgctt gtaccgtcag gctcttggtt 1200
cttggccctt ggccctatgc ctgcaacact gtcacctgca cgtggattgg gaaccacata 1260
gccccggac ctgctaaggc cattaaggac aggatgggtga tgcctcggct gactgacgtg 1320
agaagattgt catgacccat ggcctctact gctgtcctac caacagaaac ttcataatgt 1380
tgtgcaggcg ttaccactac ctagttccag aacattgcc aataaaatctt 1440
```

gcattcatta agcagtcacc cctattttcc cccatccctg tcaaccactg atttatgttc 1500
 tgtctctatg gattccccctg ttccggataa ttcacgtaaa tggaataaca caatagatgc 1560
 cttttatcat gggtttcttt cacttaggat gttttgtagg gtaatccata tagcatgtat 1620
 caggacttca tttttttttt tttttttttg agatggagtt tcattcttct tgcccaggct 1680
 ggagtgcagt ggtgcagtct cagctcactt caacctctgc cttctagggt caagcgattc 1740
 tcctgtcttg gcttcccaag tagccaggat tacaggcgcc tggcaccatg cccagctact 1800
 ttttttgtat ttttagtaga gacagggttt caccatgttg gccaggctgg tctcaaactc 1860
 ctgacctcag gtgatccgcc tgcctcagcc tcccaacgtg ctgggattac aggcgtgagc 1920
 caccatggtc agccttcatt cattttcatg gagaaaaata tttcattgta tgagtatacc 1980
 acattttgtt tatccattta tccattgatt ggttgtttct actttttttt agctattatg 2040
 aataatattg ctgtgaacat ttgtgtacaa ggttttagtg gacacaagtt tttatttttc 2100
 ttgggtatat atctaggagt ggaattgctg ggtcatattg taattctgtt caactttttg 2160
 aagaacttcc caactgttct ccatgggtggc tgtgccattg tatattccta ccagcagtgt 2220
 atgaagttac aaatttctcc acatcctgag aacccttta ttattttctg tttttctttt 2280
 tgattatagc catcctagta ggtgtaaagt ggtatctcat tgtgatttta ttttgcatth 2340
 ccctaaatga ttaatgatat tgagcatctt ttcattgtgt tcttggccac tagtatatct 2400
 tctttgaaga aatgtctatt caagtctttg gcagtttcta aatgagttat tgtctttttg 2460
 ttgttaggtt gtaagagtta taatctggat aacagatcct tattagatat gtaatttgca 2520
 cat 2523

<210> 976

<211> 2222

<212> DNA

<213> Homo sapiens

<400> 976

gtagagagcg cttgcgggcg ccgggcggag ctgctgcgga tcaggaccg agccgattcc 60
 cgatcccgac ccagatccta accgcgcccc ccgccccgcc gccgccgcca tgtacgacgc 120

agagcgcggc tggagcttgt ccttcgcggg ctgcggcttc ctgggcttct accacgtcgg 180
ggcgacccgc tgcctgagcg agcacgcccc gcacctcttc cgcgacgcgc gcatgttggt 240
cggcgcttcg gccggggcgt tgcactgcgt cggcgctctc tccgagcaga ctctgcaggt 300
cctctcagat cttgtgcgga aggccaggag tcggaacatt ggcatcttcc atccatcctt 360
caacttaagc aagttcctcc gacagggtct ctgcaaatgc ctcccggcca atgtccacca 420
gctcatctcc ggcaaaatat gcatctctct taccagagtg tctgatgggg aaaacgttct 480
ggtgtctgac ttctgggtcca aagacgaagt cgtggatgcc ttggtatgtt cctgcttcat 540
gcctttctac agtggcctta tccctccttc cttcagaggc gtgcgatatg tggatggagg 600
agtgagtgc aacgtaccct tcatgatgc caaaacaacc atcacctgt ccccttcta 660
tggggagtac gacatctgcc ctaaagtcaa gtccacgaac ttcttctatg tggacatcac 720
caagctcagt ctacgcctct gcacaggga cctctacctt ctctcgagag cttttgtccc 780
cccggatctc aaggtgctgg gagagatatg ccttcgagga tatttgatg cattcaggtt 840
cttggaaagag aagggcatct gcaacaggcc ccagccaggc ctgaagtcac cctcagaagg 900
gatggatcct gaggtcgcca tgcccagctg ggcaaacatg agtctggatt cttccccgga 960
gtcggctgcc ttggctgtga ggctggaggg agatgagctg ctagaccacc tgcgtctcag 1020
catcctgccc tgggatgaga gcatcctgga caccctctcg cccaggctcg ctacagcact 1080
gagtgaagaa atgaaagaca aaggtggata catgagcaag atttgcaact tgctacccat 1140
taggataatg tcttatgtaa tgctgccctg taccctgcct gtggaatctg ccattgcgat 1200
tgtccagaga ctggtgacat ggcttccaga tatgcccagc gatgtcctgt ggttgacgtg 1260
ggtgacctca caggtgttca ctcgagtgt gatgtgtctg ctccccgcct ccaggtccca 1320
aatgccagtg agcagccaac aggccctccc atgcacacct gagcaggact ggccctgctg 1380
gactccctgc tccccgagg gctgtccagc agagacaaaa gcagaggcca cccgcggtc 1440
catcctcagg tccagcctga acttcttctt gggcaataaa gtacctgctg gtgctgaggg 1500
gctctccacc ttccagtt ttctactaga gaagagtctg tgagtcactt gaggaggcga 1560
gtctagcaga ttctttcaga ggtgctaaag ttcccatct ttgtgcagct acctccgat 1620
tgctgttag tgaccctgc ctgtgacgtg gaggatccca gcctctgagc tgagttgggt 1680
ttatgaaaag ctaggaagca acctttcgcc tgtgcagcgg tccagcactt aactctaata 1740
catcagcatg cgtaattca gctggttggg aaatgacacc aggaagccca gtgcagaggg 1800
tcccttactg actgtttcgt ggccctatta atggtcagac tgttccagca tgaggttctt 1860

agaatgacag gtgtttggat ggggtgggggc cttgtgatgg ggggtaggct ggcccatgtg 1920
 tgatcttgtg ggggtggaggg aagagaatag catgatccca cttcccatg ctgtgggaag 1980
 ggggtgcagtt cgtccccaag aacgacactg cctgtcaggt ggtctgcaaa gatgataacc 2040
 ttgactacta aaaacgtctc catggcgggg gtaacaagat gataatctac ttaattttag 2100
 aacacctttt tcacctaact aaaataatgt ttaaagagtt ttgtataaaa atgtaaggaa 2160
 gcgttgttac ctgttgaatt ttgtattatg tgaatcagtg agatgttagt agaataagcc 2220
 tt 2222

<210> 977

<211> 2064

<212> DNA

<213> Homo sapiens

<400> 977

cccgtggccc cggggctcag gggcagccca ggactctccc tcgcccggct cacggccctg 60
 cctgggggggc gcctccggga gcagatcacg agccctgggg ctcagccctc aggcgcgtct 120
 agctcggcgg tcacccagt gccgggagga ccctgaagac gcgccccagg cggccctact 180
 cagagcctcc tccaaggcc caggaatgcg gcgctgtcgg aggtgtgcgc ggtggccaca 240
 ccgctgtccg ggtcccaaaa gcgggccccg ctcccacttc tcgccttggc cccgaaccct 300
 ggggtccagcc ccagcgcttt gtgtgcgaac accgctccgc cccggacca gctccgcctt 360
 ggggccccctc tctgcctgcc cctcgtgcc cgactacact gttccccctc cggcgggcga 420
 ctcagcccgg tccatcgtgg cggcttccag ggcggcaggc tccgggagta ctcccggggc 480
 cggctccaag gactgttccc ctctcccca ctcccactcc gcggcggcgg cgggcgagag 540
 cggcgacata gggccagggt ccggagcggg ggaggctcct ggccggggag cacgtcgccc 600
 caccggcaa cgcgaggatg gtggcggcgc agtcggctgc tttggggtct caaggcacag 660
 gggacgcgag gcacagatgt cccacagcag cactgcggc tcccgcagct gctccgccgc 720
 cgctgcccgc cctccctgc tgcagctggc gtgatggcag cggcagctct ggacgcccc 780
 ctgctgccac catcagcctt gtgaaatagc ttgaaagatc tagccacgtg agcaggacag 840

aagtgcacaa caaccatatac ttgattttctg tggaccaggt ggggcccctg ccagccttgc 900
tagacagacc caggtgaaca gtccttctag gggatctcat caccaggcaa gcacgtggta 960
cgagaagagc agtcattagg aaggccattt ggaaaagcac atcctctctg ttcacgtgag 1020
atattttaca tcctcattcc tcatcgcaag cttcctggga tttggagtgt cacagacaag 1080
agggttgggg gaggccagta ggtatggatt tgtttatatg tttatattaa aacatatatg 1140
tttgtttata ttaaaatgag catatgaata tttctgtata cttcagataa acattctttt 1200
ccataaataa gcttcatcat ccagaagcca tgttgaaagt tggtaatcaa ggataggaag 1260
tgtttccaag ggttgtcagt gattaaatca accttacctt agcatacatg tatgagagaa 1320
gtagataaaa ttatacatag agagatagct agatagataa tagataaata aggtagatga 1380
cagattagat acagatgata aacagatatg ctatcagtct agatctatta ctcacagtca 1440
gtcgtatcac agtgtaattc catcaacttc atttgcagca aaagaacagc ccctgatgta 1500
cgctgtttc ctgaatattt ggaaatatta atattaatat agatagagtc agcttgccag 1560
tataaagaat ctatctctca ctataggcag agccatgtgt tggatattat ggaggaatat 1620
gtattatttt aatcgtttaa aagactaata aacttctaata ctacttttgg gagcctctgc 1680
tcaagttcct gaggttccta ctctaaaatc cacatcaccc tccaactgct ccctatgtga 1740
gccattaggg agcacaatga attagagaat gaatcctatt agcccactaa aaaattatct 1800
ttcaaaggat gaagactgat gctaaggaaa aagagatgag gcctccctgg ttccgcatta 1860
ttactccttc ctttcttggg ttacggattg aacactgacc ttttctttca ctcttctgca 1920
agacaacccc ataagaaagc tgaaacctgc ttttgtgaaa gcctatgatt actataagac 1980
aggtgagcaa aacagaatac tagataaact cagttctttc cagtgtggtg tctttgatgg 2040
aaaaataaaa taaaagccaa tgtg 2064

<210> 978

<211> 2299

<212> DNA

<213> Homo sapiens

<400> 978

agagagagca ggagaatgaa catggggggag acgcagagaa gcacacagag gcatgactga 60
taagggcaga ggaggaaaga aggtctcgga gaccagggca tgaatgtggt tgcacagaga 120
cgggggagaag gatggggaga aatgaggaac aggaagaaga ttccgagaga aataaagagg 180
ccgagaggag ctgagccagg cagccggtgg agcaggcaga tggaacaaca gagacaaaga 240
acagagccac agagtgggca cacagcaagg cctggcagcc aagccctgtg ggtttgggtg 300
gagcagatgc ttgtatggga gcagcagctg atggcccca gcacgtgcat ccttgttgac 360
tccaggccca gcacagcctc ctcggcagcc ggccttagcc tggaggagca accctggtcc 420
agagaggcag acgaatggca gccctgcccc gtgggggctc cggttcttct cctccatcct 480
cctccaggct ccgcccacct gctccgtctg cctcccaggg cctcgtgaat cccagggaag 540
ccatgagctg ccacatcacg cccggaagga agcgggctgc gttggagggg aaaagacgca 600
ccagcagcct agaattcgag gcaactgcaga gccggaaggg gcctcggcgc tgctccctcc 660
gccccctcat ttcacaaacc ggaaactgag acccaaagca aggaagggac ttggccaagt 720
tgaagagatg aaggcgaga ggcatgaact cccgtagcca gagagtgtga gctggactct 780
acctggagca gcctcgggtg agagcccatg cccccaacca tgtccgtggt cgaggcccag 840
cccagacagg gcacaaaggg gctgaggaag aggaagtaag atgccagggt tgccatgcag 900
gagggcaacc ccaagtgaga tgggcatcgt ggcctagggc ccaccttccg gaagagctca 960
tcagaacttc ggacacactg catgggccta gaccagggc tcgttgagct cctccctcgg 1020
attggcttcg aattttaggt gaatcctctc tagcagccac attcaccctt gcaagcctgc 1080
actttgtcat cttctgaaaa ggtgcaggaa catgatgcc agctgactcc caggagcg 1140
gagccccaga ggccagcgga gcacagccgc agcaggcaga tctgttggga aaccacggga 1200
gtataggagc agggctgggg gcacctgagg gactgtggag cctgaattat tgaaacgctt 1260
agagtaaagc agatttagat ttcacaaaga cagaggtgaa ggtgggtgaa gacggaggga 1320
aggatttaaa gggaaagaga aagaggaaag ataagaatga gggagaaaga ggaagagaga 1380
aagaaaaaga gaaatagagt tatcgaagat gactgcaagt ctggcctctc tcaaccaag 1440
gagccaagga ggggaaggcc ggcctgagca gcaacgtaga caagagctca ggagggcagg 1500
gacagagccc tggcttcagc aagagcgtgg ggaacagagg gcaaggggggt ccatgcagcc 1560
caggatggca ggggtgctcat acacacagcc ttggtcctgt cccctctccc attgccgctt 1620
ttgagctcac cttgtttaag gccaaagcac acaccatcct cccacagagc cactaatgca 1680
attaacaaaa cacattcata aatcttgcag ggcgtccgga gctgtctcct ctcctaagc 1740

acaaaggcca gctccagaga tgctgtgcag agagctgtct gacctctcca gcgtcagggc 1800
 cccctgaaaa gtgcagcata acccttagta ggacagaaag accattgtct tctgccaacc 1860
 attacaaaagt ggagtggggc tggggtagg aaacacagac aaatcagaag aggctgagaa 1920
 ggcgagatg aaagtgcata ggtgtttgca gggagctggg gaatagtctg tgccttccaa 1980
 gctcaacaag agagcattca gcagagacca gagaatcacc acttttggag ggtgatttta 2040
 ccttgtgaga acagagcaca ggggtgtgtg gaccagggc atcttcggca atgcgggcgt 2100
 gacttggcgg gatgtcgggtg tttgtgtttg catgtgtgtg tgcgtgcgtg catgctcagt 2160
 ctggaaaact ggtgactcac taaaacaccg agctttctga tctgaagagc ttatattcgg 2220
 ctattttttag ctctcttctg ctcttggccc tttttttccc cttgtctgtt ttcaaagtga 2280
 gaggagtctg gagaccatg 2299

<210> 979

<211> 1947

<212> DNA

<213> Homo sapiens

<400> 979

tcaatctgct tttgaggcca gaaggaaata tcagttgaaa aaaagcacac ctggaatgca 60
 tcactcttta attctcaaatt ccatatgatt gcccaaagaa gagatgctat ggctcatcga 120
 atactctcag caaggcttca taaaattaaa ggactaaaaa atgaattagc tgatatgcat 180
 cataaattgg aagccatcct tacagaaaac caatttttga aacaacttca gcttaggcat 240
 ttgaaaagcta taggaaaata tgagaattca caaaataatc tacctcaaatt tatggctaaa 300
 catcagaatg aagtaaaaaa ttttaaggcaa ctacttagga aatcccagga aaaggaaaga 360
 actctatcta ggaaacttag agaaactgac agccagttac tgaagactaa agatatcttg 420
 caggcactgc agaaactttc tgaagacaaa aacctgtcag aaagggaaga actcactcat 480
 aaattatcta ttatcacaaac aaaaatggac gcaaatgaca aaaaaatata ggtctgtatt 540
 tcaggggccc agacagttta agattccaaa gttaatagag agagggtgtg aattaatcat 600
 ggatgcgccc cctctgtaac aaagcattac taactgcttc acttggcgtg ctgcactaaa 660

taattatggt gtctaata gggcacagaa agggagtggt ttgaaggaaa aacagaagca 720
gctcaaaacta gaaatgttca tctgttgcag tgcacaagag ttcactctgt ggctggactg 780
gtttatctgg aaatgacat tctctaagag agcacagcta cagtgcataa ggactttttc 840
cctgtgctga aaagattgca ttgtgttacg tgaacacctc ctttgaagtc aaccctctac 900
cttaaaactgt tgattaaaag gctacttccc taaaacctac tcagtgcacg cggtcagggc 960
ctttgtattc tccctcacca ttttggccag gaattaccac acagacattt gtagttattt 1020
tcaaaaatagc agcttttccc agataatggt cctgggtagt aggggaaggaa aaggaattaa 1080
aataattaaa gagatgactg gattgatttt cctcaacagc acttggttgt caaaagcctg 1140
gggattacat tataaggga gacttgggag aaggcattga tatcatatta agaattctcc 1200
tgcatatctt acattagcta gtttgagtct gtatagacat aaacataaat ggaattaatt 1260
taggatttaa ttctgtaata tttgatgctg aaacacgagt attttctatg atcttgaagt 1320
aagtaaatat caggttcgtt tccctcacgt tttaatctca gttatttctt ctgttggtta 1380
aattccctat tttccaataa atttttttca catgaaatta atatgtgac tacagaaaat 1440
aatgagcaac ctcaattttc actcttgat accaaagtga tattattggg ctttttaggt 1500
aatattgtat tcattctagc gtatgtctgt catgtaaaag caaatctgtt ttcattgatg 1560
tatctaagtt gttcatgttt ttatatctat acataaaacc aaaacaaatt ccataactat 1620
tttctttgat acaaaaagca cttaccaagt atgagaaatt tctgtttggg tgtaggcatt 1680
tagtggagga aaactgtttt gtggaccaaa acatgttatt tctttaacat taatgtttta 1740
gggagtggtt tttttagtga ttctttcccc ttgtagcttt ccatgtcttc cacttttctt 1800
gtttgggaaa gtactgctgt tataatggag gaggtcctac tttatgttaa aacaaagaaa 1860
agtggtcctt ttggtaagct ttctgtcaag tccagatcta acagttctcc aataaaatag 1920
ttctcattcc agagagcaga tgaatat 1947

<210> 980

<211> 2413

<212> DNA

<213> Homo sapiens

<400> 980

gagcgttctg tggagagagt gcgaggctcag gccatgaact tgggagatgg tttaaagctt 60
gaaactgaat tactggatgg aaaaaccaag ctaatatgt ctccatatga acataaatca 120
aaaatttctg tgaagtgtct taaagtcttt gcttgtctgt ggatagaacc cagtttggat 180
gatgtaccac tttatccttc aactctaagc ccttgatggc tttacttgca ggtttaatta 240
aggtgaagaa gttgctggag taccgaaat atcactcaat aaatagatgg gaaataaggc 300
caagattgca aaatgtcctt taagaacaaa aactgggcac attctaaaat caacacaaga 360
tacttgattt gggagtgaag aacttttgca aaagaagcca gttggttcag aaacatcaca 420
ggcaaaaagg gaaaaaatg gaatgacttt ttcattccact aaggatttat gtaaacaatg 480
tataagataa gactgtcttc atatccagaa agagatttca cctgcaacc ctaatatgca 540
gaagactaga aacaccgtaa atacatctct agtaggtaaa cagaagcctc aaaaaaaca 600
catcacagct gaaaacatga agagcagttt ggtgtgtcta acacaagacc aactacaaca 660
gattttgatg actgtaaacc aaggaaatag atctctttcc ctgactgaga atggaaagga 720
ggcaaaaagt caatatagtc tatattttaa cagtatttct aatcagccaa aggatgagaa 780
cattatggga ttattcaaaa aaactgaaat ggtttcatct gtcccagctg aaaataaatc 840
tgtcttaaata gaacatcagg agacatctaa acagtagaga atgaatggaa accagctgat 900
atattcagta ctctggggga aagggaatgt gatagaagtt cgttggaagc aaaaaagcc 960
cagtggagga aagagctagt tttgcagact gtacaagcat ggtaccagca tctcctcggc 1020
ttctgggtgag gcctcaggaa gcttttactc acggtggaag gcaaaggggg agcaggcatt 1080
ttacatggca agagagatgc caggctcttt tacacaacca gctctcatgt gaactgacag 1140
agggagaact caagcatcat cccaagggga tggcaccaag ccattcatga gggattcatc 1200
tcctgtgacg caaacacctc cccttaggcc ccacctcaa cactggggaa tcacatttca 1260
acatgagatt tgaaggggac aaatatccaa actgtatcat caaggtaaaa gaagaatgaa 1320
gagattaaac ttatgttagc agtatcagaa ggtttggcgg tcttgatgtg tgtttatatc 1380
acaatttcat ctttaaataat tttctttcag cacattccac atcaaaatgc aataccaaat 1440
gtctgaaata atatggaact acttggaat gaccagaata ttttgtgctt taatcatttt 1500
tgttgttgtt gttgttttga gacggagttt cattcttgtt gcccaagctg gagtgcggtg 1560
gcgccgtctc agctcactgc aacctctgct tgctgggttc gggtggttct cctgcctcag 1620
cctcctgagt ggctgggatt acaggcacct gccaccatgc ccaacttact ttttgtatct 1680

ttggaggaga cagggtttca ccatgttggc caggctggtc tcaaactcct ggcctcaggt 1740
 gatccgcctg ccttggcctc ccgaagtgt gtgattacag ttgtgagcca ccacacctgg 1800
 ccttatgctt taattatattt aaaaatcagt ttactgtttt tttaacttgt ctcaagtaaag 1860
 tgctctatt taagtcatgc ttccagtaac attcttggaa tttaaattta tacaacattg 1920
 aattttgtat ttaaagaact actgttgatt gggggggttag ttttgactat atctctcaga 1980
 cacaggcttt tatgtttttt acttgtcagc aattaagaaa taatagctaa cattcattga 2040
 atattttactt tgtgccaagc cctatatatga gataggcact attattatcc ccattttata 2100
 gaagaaacca aggcttagaa agcttaccag cagttggcca actgcggtgg gctcatgcct 2160
 gtaatcctac cacgttggga ggccgaggca ggtggatcac aaggtcggga gatggagacc 2220
 atcctggcca acatggtgaa accacatctc cactaaaata caaaaattag ccgggcgtgg 2280
 tgggtgctgcc tgtggccccg gctactcagg aggctgaggc aggggaatcg cttgaacctg 2340
 ggaggcggag attgcagtga gctgagatgg cgccattgca ctccaggctg ctgacagaat 2400
 gagactctat att 2413

<210> 981

<211> 2151

<212> DNA

<213> Homo sapiens

<400> 981

ttttccagga actttccagg aatcggcctc acgtgaccgc gggccccgct actgctttaa 60
 agaggctcgg tcgcaataca caggcttcag ggaagaccgg gtgagagcgc tcgggtgcag 120
 ggcgggcggt gtgcacgccg gggtcggcct gcctctggcc ccacaccccg ggggtgctcgg 180
 gcgcaagcta gagatctccc cggccaccgg ctacagccaa ccccgtttcg gcggccggag 240
 cctgccccct acccgggcca gctgagcgcc cgggttcagg gaaggatagc gatccttggc 300
 ccttggcctg ccacgggggt gggttcctct aaacatcccg gcggcgcccc ctcgatgcga 360
 ccctcctggc cgcacttttg cgggggggtgg gcgtgcagga gcgactgtgg gtcctcgga 420
 accagactct ccggctctaa gacacatcga tggcgtgggg acgccgtgct cgtcccgggtg 480

cccacggccg gggaccggag gcggtccct t gatcaggtc ctggaaggca gcgagcggga 540
gagcagcgcc tccttaagcg gcgccggccg tccttagtcc cctccccctg gcgctccggc 600
tccttgtcac ccgcacccac ccggctcctc ccttcctcct cccctctgct ccaacgtctc 660
cggtagaccc ggcggccccg ccgggtcacc tgcgccggct gctaaggggg cgcccttacc 720
tgcgcgcccc gaaggggctt ggtgactggc ctcggttccc tcagtccgga gagtgtctct 780
gccattccct gcagggtga cgcgccaggg ctgggattcg aaaggatctc ggcacctcta 840
ccctacctgg gattctcacc tccaaccccg ttggaggccc cctggcctta gtggaaactc 900
atctccttgt ctgcgcacc ccccccgaat tatgacctac ttgaaatgtg acctactttt 960
taaaagaaac ccttaacaat cacgggaaaa ccgatccaa aatttcgata agcatttttc 1020
tttgaaatac tattctattg catcactgct cgaaagcttg aaaggtcaat ggccactttt 1080
agttgaggcc gcggctatgg gaagttgggc gaggaagggg gaggggtggg agggaggcgc 1140
gtcttgcaaa ctttgccctg tgccccccct gccggctctg ggaggaaacg ggaaccagct 1200
cccaaccttg gggctctgag ccggggacca atggttttct caataatttt cctgcttttg 1260
agtacataat tctatgcaga tgataagcag atgagtcggg gaggggggca tttcccagct 1320
aacaagagc tttgttaacg ctggagccgt gtgcccttaa tcatgtttcg ttttttagaa 1380
agagcctctt atagtgtggg cggagctaac tgaaccctag ttaaaatcct ctacaaagta 1440
gttgaataat tttgcacaag gcacttacc tctttggacc tctggccctt tttataacat 1500
gaagggctag attcgggttc tgggtgaggg actgggataa aggaacaaat cagattccat 1560
gtgaagcctg tgtacagtct gaggccccaa gccttttaag aaccactatg tctactaggg 1620
ttaactgccc tctaaattgt cctaatatgg cttcttattc cttgatggag aatcctagag 1680
gaaggggtga cccacacttt agcttaata aaaaggtatt tattcctaaa actggcggag 1740
ggcggggagg gagcatgacc aagtctccct ctgtcgcca ggctggagtg cagggcgtga 1800
tctcggctca ctgcaacctc cgctccccgg gttcgggcga ttctcctgcc tcagcctccc 1860
gagaagctgg gattgcaggc gccaccacc agcctggcca acatggcaaa accccatctc 1920
tactaaaaat gcaaacatta gctgggcatg gtggcacatg cctgtaatcc cagctactcg 1980
ggaggctgag acaggagaat cacttgaacc caggaggtgg aggttacagt gagccaagat 2040
cacaccactg taccacagcc tgagcaacga aagaagactc tgtctaaaaa aagtaaaaaa 2100
taaaataaaa cacacctgga gctttctaaa aaaaaaaaaa aaaaaaaaaa g 2151

<210> 982

<211> 2076

<212> DNA

<213> Homo sapiens

<400> 982

```
agaagggcgg ttgctgcagc tttggccgag gttcgggctc gaacttgga aatgctcctg    60
gcgccctcagg gaaggtcctt ctcaaagaaa aggatggggc tgaatcgctg gaaacggttc    120
acaaggaagc cgagtcccaa gcctactttt ggtcctgaca gtgtggaaca ctggataaag    180
agagtggaga aagcctcaga gtttgcagtg tcaaatgcat tttttactag aaattcagat    240
ttacctagaa gtccttgggg ccaaatacaca gatttgaaaa catctgagca aatagaggat    300
catgatgaaa tctatgcaga agctcaggag ctggtcaatg actggttaga caccaaactt    360
aagcaagaat tagcaagtga ggaagaaggt gatgctaaaa aactgtgtc aagtgtcact    420
attatgccgg aagccaatgg ccatttgaaa tatgacaagt ttgatgattt atgtggctat    480
ttggaggaag aagaggaaag taccaccgtt caaaaattta tagaccatct gctccataaa    540
aatgtggtag attctgcaat gatggaagat cttggaagga aggaaaacca agacaagaag    600
cagcagaagg atcctcgtct taccatggag atgagacata agcaggtaaa agaaaatcgc    660
ttaagacgtg agaaagaact ggagtaccag agaatagaaa agaccctgaa aaaatcggcc    720
ttcttggagg ctcaagtgtc ggtgcaagaa gagaagaaaa ggaaggctct ggaggccaag    780
aaagaggaag aggagattca aaggggagat gtgaagctgc ggaggggagat aattgagagg    840
agacgcactg tgaaagcagc atggaaaata gagaagaaaa ggcaagaaga gaattctcaa    900
aatagttcag aaaaagtcac gtttcaaagt actcacattc ttccagatga ggaaaaaatg    960
gtgaaggaaa gaaaaaggaa attgaaagaa gtattaatcc aaactttcaa agaaaatcaa   1020
cagtgtcaaa aacgggtatt cgctgcctgg cacaagctga ttcttgatca taggattaag   1080
ctgggggaaag ctgggaccct gtctgactgg aagattcagc tgaaggctct gcgggcctgg   1140
agagactaca caagattcca gaagttggag cgggagactc aagccttgga aaatgatctt   1200
agggaagaaa acagaaaaca acaactggcc actgagtata accggaaca agttctccga   1260
cactgcttta cagaatggca gcattggcat ggcgccgagc tcctgaagag agagctggct   1320
```

ctcacaaaag aggaaactag gaagaagatg gatgcactgc tgcaggcagc atcactgggg 1380
 aaactcagtg ccaatgggtt atcaggcatc agtctacctg aggaggcaac agccatggtg 1440
 ggtccaccag taaaaaatgg acaggagact gctgtgcccc ctttgtggga aaagcctccc 1500
 ttgggaagca gtggttgtat gctcagtcct cccctgggaa gaacaacaac aggcaacttg 1560
 cagggttccc ttcagaatgt ctctctgagt gcacctggca ataagcagca caagaccctg 1620
 ggtgctgaac cctctcaaca gcctggcagc aacgagacac tcagaactac cagccagaaa 1680
 gcagaaccgc tttgcttggg tcattttccac aaccgccatg tcttccagca acagctgatt 1740
 gagaagcaaa agaagaaact tcaggaacag cagaaaacaa ttctcgagct gaagaaaaac 1800
 ctgcagctgg cagaggctca gtgggcagca gagcatgcct tagcagtcac agaagcacag 1860
 agccacctgc tgtcaaagcc cagagaagag gaaccaagaa cctgccagat gcttgtgaat 1920
 tcacctgttg cttcccctgg gactgaaggc agaagtgact cccgaaattc tctttctgga 1980
 ctcagaagga aaccaaagca attgatgaca ccgcatccca tactaaaagc tatggaagag 2040
 agagcaattc aacgagctga atgtaggcgg atcttg 2076

<210> 983

<211> 2738

<212> DNA

<213> Homo sapiens

<400> 983

tacttgctac tggggattac ccatggatat ccttaatagg caggaagtct gggaattctg 60
 gtggcctcta gggcagtgtt ctcacagcac cgttccgaca gggaccagtg aaagaaaaga 120
 gacaaagtta gaacgtgctg gggagcggcc atttctaagg ccagtctggt ttaagtagtc 180
 atttctgctg aaaagacaga tgatcctggt ggaagaaaag gttgaaggca gctgccctcg 240
 ggagggctgt gatgctcggc acatcctgcc tggcacatac acgtgtctgc aggccacacc 300
 gtgcatgtcc ccagacctgc cgcctggctt ctggagtgtc tcaagcagag catggtgggt 360
 cattgaggag acccaggaat ctcactgtgag aaccactctt ctgccggaga accccatggt 420
 gacacatttt catctttctg accagaggct gttttttttt ttttttgaga cagtctcatt 480

ctgttgccca ggctggagtg cagtggcttg atctcggctc actgcaacct cgcctcccgg 540
gttcaggcaa ttctctgccg cagcctccag agtggctggg atagcaggtg cccgccacca 600
caccctacta atttttgtat ttgtgttttt ggtagagatg gggtttcacc atgttggtca 660
ggctggcttt ggactcctga cctcatgctc caccgcttc ggcctcccaa ggttctggga 720
ttacaggtgt gagccaccgt gcacggccgg cctgaccttt ggaaaagcct tgtcactttg 780
gacgtttgcg tctttgaaga ggcgatggga gcatatcatg actgcctgcc accattgctt 840
ttcagactac cacaactcaa tcatgctgtc caggacttct ggccctgtgt tcaccactgg 900
gaaaacgtac ttcagactgg atagcctaaa aaggagcaat gccctttagt gatgtggaga 960
agggaaaata cggacattaa cattaaaaga caccagtga atgttaggt ctctaggaag 1020
ttggagcaca aggcttcacg ctttaagacc atctgtgggt ttcagtgaac aagcgttag 1080
caccagcagc agaaaacaac aacaaaaaaa cacctcgttt ttacctgtc ttctagacat 1140
gaaaaggcag ttgcattcca ctctgcatta tgttctacat gttgctttat cagtatatgc 1200
ttagctgtaa gtgacaagta ttttttctga acagaagttt acttagaaat accatgcact 1260
tgggggtacc aattaaccgc ctgaaaatta gcatattgat agttcttaga gagaccagat 1320
ataatctaag aatttatatg aaagatttgt atcattagag ccagaaataa ttttatatta 1380
atatataata cagattaaca ttatatataa tatgtacctg tgtcacttct gacatgagcc 1440
tgtaaacata tattcatata tgtacctgca catgtacca cctgatgtag gtcttattcc 1500
tttagtatgg acttaaagta cttattcata taccttgtaa ctaaaatta gaacagctcc 1560
ctagaattat gaacttttaa gagtctgact agaaatttgc aacttataaa aaagttactt 1620
ttaaaaatat aagttagggc taggcacagt ggctcatgcc tataatctca gcacttttg 1680
gaggccaaga caggaggatc acttcaggcc aggagttaa gatcaacaa cctgggtaac 1740
atggccagac cccatctcta tttatatata tatatataaa acttagagtt tttatcttcc 1800
cctaaaagag gccgtggtat ttgcagcagc ctcaaattgc tcttaagggg tttaggtgtg 1860
cagaagcttt ctttcccta cccagtaacc atgtgactac taacgtggta tattgattta 1920
ttttgtttgc tgtctgtctc ccctgccccca ctgctggaac agaggctcca agaaaacagg 1980
gaccttatta ttcattactg catccccagt aatgaaagta cttagaaaat aattattgaa 2040
tgaatgaaat ctaaactgtg aacctgaggg tgtttgtggc agtgtttgtt ttactgaatt 2100
gtagaaggac ataaccgtgt tttcagtgtt tctatggaac aaacttgtac attttatttc 2160
acttgtgttt tgtcttaaac cctactgctg gaaacaattt tatgtaataa gcaatgggcc 2220

caaaagtcta ggagtttttt tgtacttagt gaatttgtat gcaacagaga tgctgcagct 2280
 gatgccttta aaaggtattc atcatggaag agctgaggcc tgtgcttggt gttccagagc 2340
 ccagggttga gcatcctgaa ggagccactg cagccgtcac tgtccccaga gcctgtggag 2400
 atagagcctg tttgctgctt tttcttcccg ctcttaagac atggctggag ctcagtcttc 2460
 attgaatgaa gtttgctgtg gtattgcata gccttgcttt cttgaactaa actgtttgcc 2520
 cttcacaagt agttcttctt tcaggattag ttcgttccaa ggaggctctt cagtctcaca 2580
 gataagtaga tctctcctgc tgtctggaca catttcactc ggaaattgaa tacaatttgt 2640
 attcaggctg ggaacctgaa cacacacttg tgtttttaag cttccctttt ttacagtgga 2700
 caaggacaca aataataaat aaatcatccc taatgccc 2738

<210> 984

<211> 2210

<212> DNA

<213> Homo sapiens

<400> 984

gtacactctt tcttgctgc tgccatgtaa gacgtgtttg cttctccttt gctttccacc 60
 atgattgtga ggcctcccca gccatgtgga tctatgtgtc ctgggtttct tctttctggt 120
 gggctcatgg tctcgtgac ttcaggagtg aagctgcagg ccttaacgct agatggaaaa 180
 gttctccaag tccctacccg gcccagaagc ccagctggct tcacctctca ctggcactgg 240
 ctgcaggact tcgccgcacc tagccccggc actcccgcag cctagaggaa gctcctccca 300
 gacaatcaag aggaaaagag gggaagcgag aaagagacgg agagccgcca gcgtggccaa 360
 agacccact aagagggaag ggcggtccac gcacgggacc cagcctccga tcaagcccag 420
 caggtgtcga gatcgcgccc acccggaacc cacgccggcc ggccagcgct gcgcgcagcc 480
 ccagctcctg cccgcgcctc tctcttcaca cttcccggag agcagaggga gccggctcag 540
 gcctcagcca gcccagaga agggccctca cagcgcagcg gggggctgaa gggctcctgg 600
 agcgcggcca gagcagacat ggagaacgag gaggcgcgga gagcgagcga gggctgctag 660
 cacgttgtca cctgtcatga tgttgtaaaa taagaaagag taaatgttat tttagaattc 720

cttcctggcc aggcacggtg gctcacgcct gtaatcccag cactttcaga ggctgaggcg 780
ggcggatcgt gaggtcagga gatccagaca ggagatagag accatcctgg ctaacacggt 840
gaaaccccgt ctctactaaa actccaaaaa attagccagg cgtgggtggcg ggtgcctgta 900
gtcccagcta ctccagaggc agaggcagga gaatggcgtg aacaccggac gcggagcttg 960
cagtgagcca agatggcgcc actgcactcc agactgggcg acagagcgag actccgtctc 1020
aaaaaaaaa aaaaaaaaaa aaagaaaaga aaagaattcc ttccttgttt cctgctgtag 1080
ttatttgtca aaagatacaa aaaaatctgt aagagttaag caaagctata tttattttgc 1140
tgcaacacta ctatgcacag tgacatggtc aagttgcttt ttataatgat ttctagtgat 1200
attaatttgc atcagtcgtt ttcatgacct caaagccaac tcaataatac cagaaaatac 1260
ttgtttgctt gcctacattt tgtaataatc caatgtcctg aaataaaaaat gaatattttc 1320
ttcctggaaa taaagtgaga taattttctt cttccgagag actcatgaaa caagaacaga 1380
atgacattat actaaactat ttcacaaata ttggtaaca gtggaggctt ttttgttcat 1440
ttatgtaaata ttcatttggc tctattttcc taagttgcat tttatgcttc tttcacctgc 1500
cttgccaaat gaaaagaaaa atcattttatt tattaaaaca tacactaaca gaagaaaata 1560
atttcactct tcacaaactt tggcattatg aagtcactgg ttactggaga ttttaatttct 1620
gtaacatatc tgaagtgggtt atttttttct ttccatgaag gaaacctttt ggaattaaga 1680
tatggtacat tgaactaaac ggggattgca tttgctgttt ctgtgataac attttacatc 1740
tgaaattcca ataaatattt ctcttcttgc tttgaggtgg tttagttaat cattcaggtg 1800
gttggctttc ataagaagta aaggcgtgcc agcatttata gtttcccaga gttcgtttat 1860
tgcctcaagc ttgtatttat tcttattaca ctactagct tagataccag gtgaataacct 1920
gggagaaaaga aacaattaat ttcaaaagta ataaaaataa aagaacaaaa aaatacaaaa 1980
ctattcaaca tgccagcaat cctgttctct taagaaacct acctgttttt tttcaatgtg 2040
tgtaagtttt agcattttat agcaattaga tgagtctgta tatcattaga acttctgtcc 2100
ttggaattag gacaaaacta ttttctgcaa taaatatttg gctctagaaa tctattttga 2160
cctgtacat aatgcatagc agcagaatta aaatattgtg tgttatcatc 2210

<210> 985

<211> 2637

<212> DNA

<213> Homo sapiens

<400> 985

```
attcccgttt tccccattgc tgagccaaag ctgcaccaa ggagggtctc aagccgggac 60
cccggttgga gaaaatcctg gggcatccag cggcacggag ggtgggaacc agatgagcct 120
ccgcctccgc gcacggtgcc cacagtcaca cccccgttg gtccacctgt gccaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa ggcccttcat gcgcccgcag agggctctga ggaggcacga 240
gatgaaggca ggggtccgcgg agaggtggca agctgaattc tgagaagccg ctctgaccct 300
gaccctgggg tcaccctcc gtggtgcagg tggcaccgga gttgggctcg agcggagagc 360
cgcatgccc tcccagtctc accgagcctt cctaggagga aatgccaggc ccgggcgccc 420
ctacccaag gcggtgatcc tgtgaagctc gggccacctc aggggtccagc gccctcagag 480
atggatggtg ttgacaccga ggaacgaggc cgttccctct ctttggtgaa cggagaagct 540
cctggcgtgg ttccctgcgc agtctccggg tcccaggcc gtgatggggt gagcagggtg 600
cgcggcgtgg cccgggacac gagaccggcc aggagcacc cggcgtgagc agcgggaagg 660
agggcccgcc cggagattta tggccgcagc cggccccctg tgcactgagc gcgtctcggt 720
cctttcccag ccaaacagtg gagtggagga cccgaccccg gctggaggaa gaggccaggg 780
ccggaggcgg ggccgagagg agctggaatc catcggggct gggcctggcg catcagtccg 840
aatctgccc gccttgcgcc ctggtctcgg tggggtgtgg ggcgctggcg ccgcgtccct 900
ggtctttcag gcaggtccgg gcagctcctg gctgggttgg cccgacctag acttggcgct 960
gtatcgcggc tgggcctgtc gcagcgaggg gacggcgaac gtggctttcc cgggcacagc 1020
ctctccgggt tttagccgcg cccgccagac acgggacctg cggaaaccgg cgcttaagac 1080
gcccagccac acggcctctc agctggcagc agaagctggc aatccctcgg gggggtgccc 1140
ttcaatgaga tgccagcgga gagtgggggc tttggtcccc acctggaaag gcggttggcg 1200
cgacgggtgg agtggctcgg gtggccgcgc caaggaaagg atcctggctt tttctttccc 1260
cgctggggga gggataaggg gagaacgtgt ccaagcggcc agcaatacca gaatttggga 1320
agaaccgggt tcaacgccga attgagagag accgtctgat cgcgggagct gcaccagccc 1380
ggtgtagggg gctgagcctg cgccaacaaa agcgcgacag gggtgacggc cgggctcaag 1440
gttggcctgt cctttggttt taaaacaaag acggagaatt ttgtcagtcg ggaggcgtcc 1500
```

agggagcgga ggccggagcc agcggcctag gaacacaggg aaggcctcgg ctccggtggc 1560
ccaggctggc cgcggagaag cacgctgggc cgggcctcgg ctagccaggg cagcttctcc 1620
cgcagctgcg gcttagggct acaaggaaga cccccccagc cccagccga ttttctaccc 1680
agtcaaacac acacacacac agacacgcgc gcgcgcgcgc gcgcgcacac acacacacac 1740
acgcactttc actcaattgc gtccacagtt tttggccacc tatcccgtg ggtaaacaaa 1800
agtatgaggg ggtggggagg gggaggggat ggaatggggg tggggcgcgg aagatggcgg 1860
ctggacctgg tggcctatgg cctgtgcct atggccacag cggccaggcc tggtttttac 1920
atttcaatgt ggcccgccat actggggagg gcgtttccct ggaccctgaa gcctagttag 1980
ggatgtccta gaggtcccc tttacgaatg ggggcacccg ggctgcagcc actactactt 2040
cgcttgggat cggtcctccg cccaagatg gctcccagtc gctgtttact cagcgactgc 2100
agggacacca gggcgcgggg ccggggagcg ggcgaagatc acggagcgta cagattggcc 2160
cgggcaggtg gcctctccgc gtggcccgc cgcgccccca agcacgcggc agccctggaa 2220
aaccgcgtgg gcaggatgcg tcctggccgc cccgcctggt ggccaggaac tgggagccac 2280
caccaccacc gcgtccccag gccctgctcc ccggccggac tccggtggct gcagggccgc 2340
gcaaatatgg agtgggtgcc gggggcaggt atggaagggc cggtgcaagg gggctgggcg 2400
caciaagccc aggcggggag gggacctct ctgccccgaa ccgcggccct aatgaaatac 2460
cggctgggtt cgtcacaccg ccgaggcgca cacttgaaaa atgcaaacgc cattggcaaa 2520
tccagggcaa acaggcagaa tttttattag caactaaatg atttatggca cacgtacccc 2580
gccgtcacia ttacggcgtc tcggagcatc cagggggtga aaacattaaa catttat 2637

<210> 986

<211> 2196

<212> DNA

<213> Homo sapiens

<400> 986

atatccccct gccaggaagt taagtctatt cctagtgtgc tactgtaaag gtgcaattag 60
tttcaagggt taattagcag cgcacagact ttagattggt ggacaaaagt cctatatatta 120

agctgtattg catcctgcta tgtacttact atagaacagg gaggagaatc tttgctgttt 180
tccccctaa aaaggaaaag gataatcagc attgtcaaca tcggccatat ttaagcttta 240
aaattttaat ttaaacaatca ttttgccaaa gacctgtcag tgtttttgtt gtatgtttca 300
ggtggatttt ctcagatgta tgcctgtgtt tgtgactggc ttggattttc atacagggaa 360
gaagtacaat gggatgtgga tacaatttat cttaccaag acaccaggga attgaattta 420
caagatttta gtcacttga ccacagggac ctaataccta tcattgctgc tctggaatat 480
aatcagtggg tcacaaaact gtcctctaag gatctaaaac tgtccactga tgtctgtgaa 540
cagatcttga ggggtggtag taggtccaat cgactggaag aattgggtgtt ggaagatgct 600
ggacttagaa cagattttgc acaaaaactg gccagtgtc tagcacataa tccaactca 660
ggactccaca caattaacct tgctggcaac ccactggagg atagagaaac cactaccaag 720
atcaagagac agaatgttcc caccgttctc cagacttacc ttgtggtttg cccagtgtat 780
taccagccct gtcctctacc acttggaana gataactact attctgactt ctctcatgat 840
ggatgagctt tgcctgttct ttgcctatgt actccttgt gtgtggcttc ttttgcttct 900
ctttgtggag agatttttta ataataagatt tgtttccttg aatagataga gaactattga 960
gattatttac ttcttcttaa attagttttg gtctgtcatg ttttcataa gggatttgtt 1020
cctttctatt aaaatgatag ttttttgact tacagatgtg tttataacct cgagttataa 1080
ttcaacgcct gtaagatctt tacattctct tttcatttga ttttgataat ttgatctctg 1140
ttctcattt atttatttta ccagtcttgt tggagtatat taattttgtt agtattttta 1200
aagaaccaac tttgttaaatt ttacttattt ttatggctgc tatctattta actggattct 1260
tcccttttc ttattttttt tccttccttc tgtttacaga ggtgggtgag gattaatttg 1320
ctgttttttg agctggataa ttagataatt attttccagt tttttatctt tcttaaaata 1380
tgtatttagg tctattgatt tctctctagg catggctcta gttagatccc aaagatttta 1440
ataccatagt ttttagattt aactcaaaat atttttaaaa ttcccactgt gatttttgac 1500
tcttttgta tttagaaata tattgcttaa gttataatta tttggggatt ttctaattat 1560
cttattgta taattcctat ttttaactgca gtagtggtta cagagaacat acaaatattc 1620
tgtgtatgaa ttcacagtac taaggaacat tctgttattt gttgagactt tctttatggc 1680
tcagtatatg attccttttg gaaaatatat agtgtggact ttgaagaaat gtattctgta 1740
gttactgggt acagcatttt aaatatatca gttatatctt ttttcattat gatcttgata 1800
ttttctatat ctttactgac tttttctgtt catttattag ctactaatag aagtgtgtta 1860

gaaaacttcc attattatat atgcgtgtgt gtttatgtaa tatgtgtatt ttccttttgt 1920
tactgtcaga tttactttat atattttcag atgatgttaa tcagagcata gatttagagt 1980
aattgtatct tcttaattaa tgaaatattc catttatctt tagtaatgtt tcttaaaatt 2040
taaattgtct tattgcagct acatcagatt tcttttagtt agtgtttgta gcatactttt 2100
tttcgctttt acgttcactt ctgaatacat gtatctctag gtgtatctct tgaaaacatt 2160
tgatattttt attcaaataa atcatctttg acttgt 2196

<210> 987

<211> 3934

<212> DNA

<213> Homo sapiens

<400> 987

atgatgcgga ggacgtctc cggtgcccc tcgctctcca tgcagaacat ccgttcccag 60
ggtggcccg gccaggcctc gggggtgcaa ggggtggcct gacccccctg ctcccgcccc 120
cgccgctccg ggaagaaagg gcgctgtgtc tggcggcgag caggcgccgg aatcgtgcgc 180
tcgggcccag ggttgcacgg agcactgggc ccggataccg ggggcgcaaa gcttcgggtg 240
cggcccagga gaacccgcc gagggacccc agcctaccgg ttctcggagg ggcgaaagag 300
ccaggtcagg ttgagggaca ggaggaggaa ggggtgtcca ggagactgac tgaaggatga 360
gagtgtctc cggggtagcg accggcctct tggaaaacca gaggcggagg gacgagccgc 420
ggagtggagg gcgcaggccg ggacctgggc ctctcctccc acagcaagcc cccacccac 480
gcatcatctg cagccgagcg gcacctacct ccctctcctt acctatccc cgctcgcgt 540
tccgcaggtc aggccacgcg ggtgccagcg cgggctgtgg gcgccccagc cgcggccttg 600
gggaggggtc aggactgaag ttactctct ctctgcgtgg tctcgaagcc cctcgccac 660
cccgcactgt ctctccgcc gccggctgcg cgcttggcgg atcttctcca tcagtctgc 720
ccactggagt gggaaggggc tgagccgagc cgcgcgggaa ttgggaggcg gggaagcggg 780
gaggcggggg aagagacgag atgaaatcgg cccgggacag cagagaggct tgggatggga 840
tggaagggaa gaggggggtg cggttgcgtt ttccagggt gtagaggtgg tgcgcctatt 900

ggaaccgact cctcagcctc ctcccccgtc cccacctcgg ggactggcgg accgtgcgcc 960
ccgcaggctt aacactcccc ccgacaccct cgctccgaga aggggtgttc tcagtgggca 1020
ccgactaggg ctccagatcc cccgagaccc agaccagggc tccggtagtc tgtcctcgca 1080
gcttccaact tttccgctcc ttccgaaaag cgggcagttc agagatggtt cccagggcgg 1140
cagctgcaag cccccccgcg cccccctcaa aggttcagac tacactcaa ggctccgaaa 1200
gaagcaaac caccagctct accctccttc tgcggcttgc ctcacccttc ccaccgcct 1260
cgaaaccac acacacggga aaggggtgca tggagcccgc tccccggttt acagaagcag 1320
cccggagcta ccgtcatttc atcttcacgc ggggtctcca gcgcgcctgg atcgttcct 1380
agccaagcca agccaggtct aatcaatcac gtgcgttatt tcgtgcatca cccaagccgt 1440
catcttatcc gaggcccgga gatgaaggag ggaaaaaaaa tcgcttaaata gcgaccccaa 1500
ccaagccggt tttccctttt tctttctggt taacagcacc cccccaacct ctcaaaaaag 1560
caccacaggc ggtggtagct gacagttttc ttaaagaata aggggggggg gtgggggggg 1620
agagaaaaag aaaagaaaag cctcccatgc ctcacagttt gcagaagtct tcctgccttc 1680
accatctcca gccctggccg cttctctcct tcttctcct gtactgcaga tacatatata 1740
ttttttcct cctctccccg ccacagtctt ctgtttattt gtgtggaagg cagcgctact 1800
ttgtaaacac atcacacacg gcccagagc cgttcaaata gctgattgca gcaaacgct 1860
tccaaacaac ggtgggtctgg atttttctct ttaagtgaata ataaaaccaa atatttctgt 1920
ggagaggttg catgtaaaaa ccgtatgaag gtctacactc ccaccacac ctaagaaatg 1980
cagcgagaca gatgggagaa agtcctgtcc aaattttcca aaaataatat taataatcat 2040
aaaaggaaaa aataaagatc agatgaagtg aagctcaagt atctgcagtg aggctttcca 2100
tcctttgctg caagtcaaaa tgtttaaacg gctttttaaa atgagaataa tgtccagag 2160
acaggtctta aaactgcacc taccttagct ttggaagagc tgcctcgcc gttaagagtt 2220
ctttttacac gtccagattt ttctagggaa cccgaaacga ggtatgattc aggaggatgt 2280
attgaaagcc caggagcctt ccccttctgg aaccccccaa ctagatttcc tcatccagag 2340
gaatgcaaga gccaccaaca ccgcctagtt tggaggaaat tcgttgtttc tgccgccaat 2400
agtctgtgga cgggcagaac aagcattaca attgaagcag gaagggccaa gctagtggct 2460
gaataagagc tctgtgctaa gagacagaga agggagagag acggttctgc aagaaaaaga 2520
gagattgagg agagaggctc tgcgtctctc ggggctctcc ctctgccatt ggaccaaact 2580
gaatgaaatt tacaagcca gcagccaata gatctccgga gtcggcccca tctactacaga 2640

aaccacatcc acagctacaa cctcatgcaa agagctgcta atcccaatgc aaaccagctg 2700
taacggagag atcccgggta ctcgaggagat agagcaggtg ggcatggcaa acggtgccac 2760
cgcaccagac gcgtacagca aaccttcttc ctctttgctt ttttaggact ctctagatac 2820
cctccacacc aaacatgctg cagtatatgc aaacatcttt aactgtttta ggtcacgatac 2880
tccagcagtc tctatgtctg cgttattgta attcatttgg gaagcaatga tataaaaaaa 2940
atttttaaga gcagcaaact ttggaataga gttctgtaaa gtacaggacc tgttttatgc 3000
tcagggatatg gttgagaggg gatcgatgaa agctttttgt ttacttctat tcttatactt 3060
tcatgatttt gataaaatgt tggaattgtg cccaggatga ggcatttgtt tttaaatacg 3120
cctcttcatt tccagggtcc aggaggttat ctttcccagg gagtttcaag ttgcggggggg 3180
cgaggacggg ggtatgaccc ctgtacttaa agttgagttg gagaaagttg gatttaaatt 3240
ggcaatgcaa agatcagagg gcataataga gtgtttgtgac aatgaacacg gattttaaaa 3300
tgagattgct tgggttcaag atgcatgtga ccttaggtgt gtattttaat cgtttgcctc 3360
catttctgta tctgtaaaat ggaacagata atcaccgtgt aatactgtaa tgattagctg 3420
agttaatgtg tggggccagg tagtcttcac aacaatatta catggtgatt acttttattc 3480
ttctgcttgg ccagaaaagt tagcttttct taaaattatt tcatggccca ttaattcatt 3540
tatggaagga aaaagatagt gtccgcaaca cataggatat cctcctaatt gcttcggctt 3600
taggcagtaa accaaagcat gaagcctgcc atggtgatgt gaaggatatt tgggcagcct 3660
gaccaataat ggggaaggtg atagacacca atttggggac ctggtttcat gttaagactc 3720
tatactcaca aactttgcct tgttgtaaag tcagttatgt tctgtgaatc tgttaaactg 3780
agattaaaat tacctttcct gtggatttct tgtggagact aaatgaaata atatgtataa 3840
aagcaccttt taccaacaag ataggtacat aaatatacac ttatctatta atagatatct 3900
atacccaata ataaaaaac atatatccat ccat 3934

<210> 988

<211> 2942

<212> DNA

<213> Homo sapiens

<400> 988

tggtcacact gctggcccta tctgtataaa agtccagaca gttgggctgt gaggggaaat	60
gcctacctca gagtagctta agaaagaaag atattgggtt acttctgaaa agctcaagac	120
cagctgagtt taatggcatc attaaactca ttagacatgg ggctgggaag tggctgccag	180
cagtttgggtg cacagcctgt cctctcagca gcccagggtg cagggtgtctt gggagtggca	240
atgatgagac cagctgctca tcctgggctg gtcatttgtga ctcagatgtg gagtgggctg	300
gttagtgggtt ctggggccact tgtccatctc tggatctggc agctccatct acacagtgtc	360
gggctaggca tgggagcatt ctggggccagg agaaagggga ttggatcctg gatggtggga	420
accgcaggtg tccccctcca cgtgcctggg tccaagactg ctctgctctg gaccttctac	480
gccttcagag gtacaagttg cagtgtctacc cttgctgaac ctacaaccct gttcaagtga	540
caacttctct gagtctcata cgaggatata gaaagaacct tctgcacagg gctgttgtga	600
ggattaaccg taataataca agaatatctg gcacttgcac tcagcaactc accgcttact	660
tgttcaacca ggtaaaaagg ttctgatccc agtgttgcag gacagaaaga cttccccctc	720
tgtggctgca gatgtgaccc agcacagaaa aaatggcagg tgaaagacag gcaggaagag	780
caactaagaa ggtgggaggc acctccataa gatgcctgag gccatgggga tgaccgttca	840
cagagctagt ccctcgagca atgtgttaaa tctactgaac tgtgataaag caacttctgg	900
gtgaattttg tcctgctaca aggtgtcatg gaatggcaag gtggcagatc tcagaagtgg	960
atccaatggg ttttttttag gtaaagcaga acattcctgg ggatgggtgtc aaactccctt	1020
ccatactgtt gagtctgctg atgattacac tggcttctcc tctttgcccc atcatttcac	1080
aggttcccat cttaaagagg aagagaaagg aaggagggaa cgaaggaagg gagggaggaa	1140
ggaaggaagg aaggatggaa ggaaggaagg aaggaaaggg agagagggag ggaagaagag	1200
agggaaggaa gttatcaaac ccaagctctg tgcagagcag gagacgtttc catgggaccc	1260
ctagaataga taggttcttg ctgctctcct ggtggatgga gatgccacc agtagctgtg	1320
agagtctccc cgaaggcctg attgtggctc caagttccgt aggactcact agtctttttt	1380
ccctagaggg tcttgccatt gagaggcagg tgatgtgctg tttcagaaaa caaaattggg	1440
acatgtcctg atatgacatc catcaaatat atacagatag gtgtcacagc ccccgaaaaa	1500
gcttatctct tctaggccac acatagctat ttctccaac tgtgtcagac attacaaagt	1560
ttctagcaat caaaacaagt caaatgcat tctcaggacc cgttggagga ttttttgctt	1620
tgttttggct ttgtacggtg tccataccat ttccaaatt cttttgtcct tacatatttt	1680

gtttttctta aaaaaaaaaa tcacctataa tcccatcacc agacaaaacc actagaaaga 1740
 aaccaacatt ttagccatgt ttttctgtat ataaaaaaag tgtgtgtgga atttttcata 1800
 acactattgg gaccatgaca tctatcacat tttttattag gaaatggcct tcaacaatat 1860
 gcatttaaca atatgcttga tgtctgtgta atatttcac ttacaaatat atcatgattt 1920
 atttaagtat tccctgattg cttgcttcta actagaaaaa acaatttttc taagtgtcac 1980
 cactgggtta gagtaatctc agccaatcct cctaatagca ctgtgagacc agagttaga 2040
 taatcttcag ttaatggaca agggacatga tgggtgtgga agataaataa actacccaaa 2100
 gacaactagc tagtgagacc agcatggaca gtcaagccca gtgcatgtaa tctgtgtccc 2160
 cctgcactgt tgctcatata cttggaccct tgcatacatg attttcttat tcatcttgaa 2220
 agagaaatgt tagcttactg tttttatttg catttatctt gttgcttttg agtttgagca 2280
 tctttccatt tcttatagac catttgcatt tgttttccta caaatgcct gttcatggct 2340
 tttgcccatt tttctgttag ctttgtccta tgtatacaca catgtatatt attagtccac 2400
 tatctgtcag gtaaattccc cagttttctt cttgcctttt aatgttgta tggtcattta 2460
 ggactagaaa gttttaaatc ttgtatgcct atcagtattt tactgtgtga ctattcccat 2520
 tatttttatg cttagaaagt tttcattcct atcaagtata gataaatgtt cagttctact 2580
 attttatatt aactgtgcag tgggttcatt tttggcattg aattaattaa tctatctgga 2640
 tgttatcatt agtttccttc tgaaaaagtc agtccaggct ggggtgtggtg actcacacct 2700
 gtaatcccag cactttggaa ggcctgagtc caggagtcca agaaccagcc tgagcaacat 2760
 ggcaaaactg tgtctctatc aaaaatacaa aaattagctg ggagtgggtg cacatgcctg 2820
 tgttcttagc tactcaggag gataaagtgg gaggattgct ggggactagg aagttgaggc 2880
 tgcagtgagc catgattgca cccctgcact ccagcctcgg tgacagagca agaccctgtc 2940
 tc 2942

<210> 989

<211> 2284

<212> DNA

<213> Homo sapiens

<400> 989

gagtcagctg ccgccgaggg accagcgagg gtctagctgc tgccgccatc cccaccatcc 60
ctgaccgcgc ctgcccgggc tccgcgccag gaggagcggc caggccgagc cccggcacccg 120
cgcgctcggg gaccccgacg gcgcccagcc cggcgagggg cctcggggag gacgaggagg 180
aaaggcggcc tcgccgggga cccggccatg gcgctggact tcttggctgg atgcgcgggg 240
ggtgtggcag gcgtgcttgt gggacaccgc tttagacacgg tcaaggtacg gcttcaggctc 300
cagagcgtgg agaagcctca gtaccgcggg acgttgact gcttcaagtc catcatcaag 360
caagagagcg tgctgggcct gtacaagggc ctgggctcgc cgctcatggg gctcaccttc 420
atcaacgcgc tgggtgttcgg ggtgcagggc aacaccctcc gggccctggg ccacgactcg 480
ccctcaacc agttcctggc aggtgcggcg gcgggcgcca tccagtgcgt catctgctgc 540
cccatggagc tggccaagac gcggctgcag ctgcaggacg cgggcccagc gcgcacctac 600
aagggtcgc tggactgcct cgcgcagatc tacgggcacg aggggtctgcg tggcgtcaac 660
cggggcatgg tgtccacgtt gctgcgtgag acgccagct tcggcgtcta cttcctcacc 720
tatgacgctc tcacgcgggc gctgggctgc gagccgggcg accgcctgct ggtgcccag 780
ctgctgttgg cgggcggtac gtcaggcatc gtgtcctggc tctctaccta tcctgtggac 840
gtggtcaagt cgcggctgca ggcggacgga ctgcggggcg ccccgcgcta ccgcggcatc 900
ctggactgcg tgcaccagag ctaccgcgc gagggctggc gcgtcttcac acgggggctg 960
gcgtccacgc tgctgcgcgc cttccccgtc aacgctgcca ccttcgccac cgtcacgggtg 1020
gtgctcacct acgcgcgcgg cgaggaggcc gggcccagg gcgaggctgt gcccgcgcgc 1080
cctgcggggc ctgccctggc gcagccctcc agcctgtgac gtcaccccg ccctccttc 1140
ccagggtcc ttctcagaaa cctgggacat aaattggccc ctgagtcgat tgccctgctt 1200
cctgctggga tgctgcgagc tgtggagtct atcagacgtg ggctgaattt tgctgatcag 1260
ctgggtagtt ttggccgaga actgcacttg cctcagtgtt ctcactatg aaataaggac 1320
cctcatgccc aactgtaga gtcacgaagc tcagagatta ttcccagcag cagccagcac 1380
ctggcctggc tgaggccatt gcaccgttat cctggaaaact gaggcagaca ctccagcccc 1440
tttctgggat cctggccacg tcatttgtgt cctgccctgc aggctggctc ccgggggtct 1500
ctgatggcca accaaggggc caccaggga cctctaactc cacacatcct ccaccgggg 1560
gggtggtggg ccaccctct ggtctgtgtt agggacagag gaaaacttgg tgtgcctcct 1620
ggtgtcacag aactggatcc tctgcatacc ccagcttctc cacatgccac tgctaggggt 1680

accccagctg ctgccactcc tgctggaggg tgaactgggg accctgcacc ctccggaag 1740
 ccatggagtc tgctggaggc accatatcag cctgcgggac tagggtgggg agcaaacagg 1800
 ccagcggtag aggtctggac agttcaagtg tgatgcagct gtggcaagga gaaatccttc 1860
 cgcctctggg cctcaggctg cctgtccata aaatggggac atggccagct gacggacaac 1920
 tgagtctccg gcccacctac caccgccagc caggatcccc caaagtgtgc agagggtca 1980
 gcagagaaca gtatgggacc ccctcaccag gcctggaaca cctccagcca caaagaagcc 2040
 aaaggtcagt ccctctgtc cccagcaaac ggtgcctccc aggcattctc agtgccaggg 2100
 cttcatccct gtgaaggcac agggcctgtc agtgggcaca ggggtggcta gttggggcct 2160
 ggggcagagg agggctgcac caggcgtcct ggggaatgtg ctcagtgaag acgacactgg 2220
 gctttgcaca gcctggtgtc gctgtacaga aactgtcaag ggaataaagt gttctttgtt 2280
 tttt 2284

<210> 990

<211> 3614

<212> DNA

<213> Homo sapiens

<400> 990

gtgcgggggg cgccgaatct agatcccggc gggcctggag cgtgggagtg cgtgggcgtc 60
 cccgggcgcg gtccaagtcc gtccgggggc tgggtgccca cccgacacc cactcccgcc 120
 tggccctgcc cgaacgatgg gctcccgggc cttaggcgtc tcgggtgaac gggaaggagc 180
 tctccaagct gtctcaggag caaactctgc aggcctgcg ctctccaag gagcccctgg 240
 tgatccaggt gctgagacgc agccccgcc tccgggggga cagctcctgt cacgacctgc 300
 agctggtgga cagtggcact cagaccgaca tcacctcga gcatatcatg gcgctgggca 360
 agctgcgtcc gcccaccccg cccatggtca tcctggagcc gtacgtcctc tctgagctcc 420
 cccaatcag ccatgagtat tatgaccggc cggagtttat ggagggcggc ccgcaggagg 480
 cagaccgctt ggatgagctg gagtatgagg aggtggagct gtataaaagc agccaccggg 540
 acaagctggg cctgatggtt tgctaccgca cggacgacga ggaggacctg ggcatttatg 600

tcggagaggt aaatcccaac agcattgcag ccaaagacgg ccggatccgt gagggagacc 660
gcatcatcca gattaacggt gtagacgtcc agaaccggga agaggcggtg gccatcctga 720
gccaggaaga gaacaccaac atctccctgc tgggtggcccg acctgagagt cagctggcga 780
aaaggtggaa ggacagcgac cgggatgact tcctggatga ctttggctct gagaatgagg 840
gggagctgcg tgctcgtaaa ctgaaatcac cccctgcca gcagcccga aacgaagagg 900
agaagggggc tcccgatgcc ggcccaggcc tgagcaacag ccaggagctg gacagcgggg 960
tgggccggac tgacgagagc acccggaacg aagagagctc tgagcacgac ctgctggggg 1020
acgaaccccc gagctccacc aacaccccg ggagcctgcg caagtttggc ctgcaagggg 1080
acgccctgca gagccgggac ttccatttca gcatggactc tctgctggcc gagggggcgg 1140
ggctgggagg gggcgacgtc ccgggcctca cggatgagga gtatgagcgt taccgtgagc 1200
tcctggagat caagtgccac ctggagaacg gcaaccagct gggcctcctc tttccccggg 1260
cctccggagg caacagcgcc ctggacgtca accgcaacga gagcctgggc cacgagatgg 1320
ccatgctgga ggaggagcta aggcacctgg aattcaagt cgcgaacata ctgcgggcgc 1380
agaagatgca gcagctgcgt gagcgtgca tgaaggcctg gctgctggag gaggagagcc 1440
tctacgacct ggcggccagc gagcccaaga agcacgagct gtccgacatc tccgagctgc 1500
ccgagaagtc ggacaaggac agcaccagca cctacaacac tgggggagagc tgccgcagca 1560
ccccgctgct tgtggagccc ctgcccgaga gccccctgcg gcggggccacg gccggcaact 1620
ccaacttgaa ccggaccct cccggccccg ctgttgccac ccccgccaag gcagctcctc 1680
caccggggag ccccgccaag ttccggtccc tctcccggga tcctgaggcc ggccggaggc 1740
agcacgcgga ggagcgcggc cgccgcaacc ccaagacggg gttgaccctg gagcgtgtgg 1800
gccctgaaag cagcccttac ctctcgcggc gccaccgcgg ccagggccag gagggcgagc 1860
actaccacag ctgctgcag ctggccccga cgcgaggcct ggaggagctg ggccacggcc 1920
ccctgagctt ggccggtggc cctcgggtgg gcgggggtgg ggccgcggcc actgaagcac 1980
cgcgcatgga gtggaaagt aaggtgcga gcgacggaac ccgctacgtg gccaaagcggc 2040
ccgtgcgaga tcggctgctg aaagcccgtg ccctgaagat ccgggaggag cgcagcggta 2100
tgacgaccga cgacgacgc gtgagcgaga tgaagatggg ccgctactgg agcaaggagg 2160
agcggaagca gcacctgatc cgggcccgtg agcagcgga gcggcgcgag ttcatgatgc 2220
agagccggct ggagtgcctg cgggagcagc agaatggcga cagcaagccc gagctcaaca 2280
tcattgccct gagccaccgc aaaaccatga agaagcgga caagaagatc ctggacaact 2340

ggatcaccat ccaggagatg ctggcccacg gcgcgcgctc cgccgatggc aagcgggtct 2400
 acaaccctct tctctcagtc accaccgtgt gagctgcccc ggagggtaca cggcccaggc 2460
 ccagggaacc ccctggggcc ccggccctca ctctcctata gagattgtgt gtgtgtgtgt 2520
 gtgcgcgcgc gcgtgctcgc tgtgcgcacg cacacatctc gtctgggtgt gcgcacaggg 2580
 ctttgttagc agagagaagc ccctgaggag aaggagcgt tttcttcctt ctgcccagt 2640
 aaagtgacca tgccagtggc cagcactggg ggcacacctg tgatgggcac cccttcagct 2700
 gtgcgtgtgc attccccatc ccccatgctc ttgcgtgtgc ttgcacgtgc acgcacacac 2760
 acacccagtg ctctctccac ccgaccctg tacttgaga cagggaagct gagctgaaag 2820
 gagcacaaga gagtgtccgg ctctcgtgct gagcgcggcc tctccccgcc gctgcgcact 2880
 gcagttatth gtagacaaag gcacccctga tttttgtggt ttttctcctt ttctgtgctt 2940
 gccaatagtt gttttgtttt gtggacctgc cctgggggct ggcagctcct tcaggcagcc 3000
 tggcagaagt ggaactcccc tctccactga tggctgggaa gggagttggg gaggaagagt 3060
 gggagggagg gctggggatg gatgggaggg aaggggaggg aaaggtggga ggaatgggaa 3120
 gcagctgttc tgggtggcttc cactctgagg tgtgggaacg gggagcctct ggggggcacc 3180
 tgtttcccca gtgactcaga gagagcaaga ctgcaggaac ggaggggtcc tgcagggtgt 3240
 ccaccaagaa gtcacagagc ccgttctgcg cccacacca tctggagcag gggcttctct 3300
 tctgagtga ctgaggaagg tgcttagatg gtgagggtc tagaaacaa gccccatgag 3360
 cagcagtga agacctggg ccatgcggcc tggggaggac ttggtggcga tccgcaacct 3420
 ggacccagt gagaggcggg gggctgactg ggaaggagag gcccacaacc tctcaggat 3480
 ttgcacgtgt gaactaggct gcctgtgggg tgccccctag gcttgagag cccagattg 3540
 gaggcagaca gactgcacca ccccttcccc ccctgcatct caagaataaa gcaagctgcc 3600
 tttgtacttg gttg 3614

<210> 991

<211> 1842

<212> DNA

<213> Homo sapiens

<400> 991

gatcaatatt ctttcttatg ctgttactat taattaacac attttttaac catgccattg 60
aacttttggg tgcattaaag tggaacccaa gtcctcatt agataataat ggcatttgga 120
ctgagtgcc aatttcctaaa tttccaataa agtggttgat atagagagga caggataaag 180
ccctatagtg tgcagttata tcaaaacagc tagtctccac tttagggaat gcctttacta 240
gagattacat gaaatgtctg cttataaaat aagcagagat ggcaccacta agcagccacc 300
tgaattgttt tcctacagga atgattactt ttcagatcca tttatgtttt catgctcaat 360
acttactccc cttccctgca acacccaaag agtttacttt tgcaagtcatt ttgggtcttca 420
gtctactact gaggaataga gaggcactaa ctgctttacc caggatcaga actcatgttc 480
ttaccttcta ttaatagagt acttgagccc gatggactaa ctgggtctcac attttctcta 540
tcttgggtttt acttcataa acatcaatat ctttaccac atgatttttc catcctccca 600
tttttttcca tatgtattag ggttcaggaa ctatgatgct aatgatcaca tttcttccca 660
gttcctaatt tcattagtgc catttctga tatctacaga aacaattatc aatacatgta 720
gctgcttgag ccttatttag aaggctagcc tttcttttcc aagtgtgtc agaattgata 780
catttagtct gtctttttcc cttttaggag tctttgttct gggttgatgg caaaattcct 840
ctttttacat gtgagatttt tgatttctact gaattctacc tagattttta tggacattgg 900
attttaaaga ggaaaacact cattttctta gtaagatatt ggtgatacat agctatgcc 960
ttgatttcca tactcctgag ctttggggag ggagacagt gccaagtagc aggcagaata 1020
agatcatcac tcatgtcctg aatcaatcac actttccctc tcggattgtg tatatgtctt 1080
gccacttcct acatattaca tcctgagttt ttaagtaaag tggatcttag ccagatttga 1140
gtctaattggc tgattcatcg gcatagttct tggcgtaac atctcagtgt cctcttttagt 1200
tctctttgag gattcatgtc attgagggcc tttgtgcctc cacttgtctc agtatgagga 1260
agaacttttg tgtgagggcg gagctatgtg aagggttgct gggttggggg attagttcat 1320
atgggtccca tgccatctat ttacttttgg agagagggga ctttgagtgg gtgggtatgg 1380
atagatgttc ctcaaggaaa ccctgctggc taatgggcac tacatctgtg tattactgtg 1440
attctctctg taagctcccc atgtggccaa ggacccccct cctaccaggg cacttctgc 1500
cacctcattg cactggtctc aaccattcag cctgctgtg ctgcaccatg ttgggctgcg 1560
gtaggatagg gaaggggttc tggtgattgc taaatgtgc ctaactttat ttcctctcc 1620
cacatttcat gcaagggagt ggacctaaac catgacttgc attctcttcc tatgttcaga 1680

aactccaggg cttgcccacg tgtatgtatg agtgaccaat ggagcttgga attctttatc 1740
tatatgatct gtccgaaaat gagatctttt gtactggaat ttgtgatgta gttgatcatt 1800
cagagccaaa cgcatatacc aataaagaca agactgtcat at 1842

<210> 992

<211> 1947

<212> DNA

<213> Homo sapiens

<400> 992

aggtatttta acatatcatg aaaggcaggc ctcttggtga caaattctct caacttttat 60
ctgaaaacat ctttatttct tcatttctga aggataattt tactggatat ggaatttcaa 120
actctgttgt taggtacaga gcagaatttt gaagatgcat taattctttc aagtcatgaa 180
ggcagtgtac aagagcaagt taaaaaatgg cggcctgaga ccaaaagaac caatgaatta 240
tcttacagag acttgcttgc tttgcttctt cttttcacaa caagaagaca gacatcatta 300
atttttaaaa aattactatt tgacctttcg gagagccagc caaggaatca tggatgtatg 360
atatttgacc tagattttga agacagtttc tacaagaga aaagtgagca atggccacgc 420
aggtgatgaa gacagtcttc gagaagatgg ggaaacatag aaacatatga cctgctcaaa 480
agtacaagag attttgcgtg actaaaaatg gtatgggagg ggcattcccag agaaagaaga 540
tgcaaagtgt agctgacagc agaccttcaa gcacctcaaa ttccaggaca accagaagtc 600
tttccttaag cgagaagcag aaatgcattt tggatatatt gcaagagttc atgtaagcta 660
tattagttac cagaattagc aaataaaaaat acaagatacc cagttaaatt tgaatttcag 720
ctaaagatat atttttctag tgaaagtgtg ttccgtgcaa ttttatgac atagttatgt 780
taaacttatt tgttgttcat ttgaaattca aatattattg ggcattcttg caacccttag 840
cataatcagg gcctttcact tggatttctt aataccaggg gctaacagaa tctttaagag 900
ccagctgtca ttatatatca tgttcatcag tcattttggg cttttcaacc ttttctccat 960
agacctaaag ttaagaaaaa agacatatat gcaggtttgt gtggaaagca ctcgctagaa 1020
ctgaagctcc ctgcaataac ttttgaagta gcagaaatgg acttagggct catctgcagg 1080

cacattgcat ctttacctaa tcttcagaca ctgcttatgg ctgggattgc ttaggccgta 1140
 gattgatcat taatcttttag gacggtccgg tgtggtggct catacctgta gtcccagcta 1200
 ctctggtggc tgcccaagac cttgggagcc cccactgtt gcatcagcat tcctggatat 1260
 gagacatgga gtcaaaggag attgttttgg agctttaaga cttaatgact gccctgctgg 1320
 gtttcggact tgcattggagc ctgtagcccc tttgttttgg ccagtttctc acatttggaa 1380
 tgggaacatt tcccaatgc ctatacccc attgtatctt ggaagtaatt aacttgtttt 1440
 ttattttaca gaatcatagg cagaaaggac tttccttgtc tcagatgaga ctttggactt 1500
 ggacttttca gttaacgctg gaatgagtta agactctggg ggactgttga gaaggcatga 1560
 ctgattttga aatgtgagaa gggcatgaga tttgtgaagg gcaaggagtg ggatgatatg 1620
 atttgtctct gtgtcccat ccaaattctca tgtcaaattg taatccccac atgtcagggg 1680
 agggacccga agggaggaga ttagatcatg ggagtggatt tccccatgc tgttctcatg 1740
 atagtgagtg agttctcacg agatctgatg gtttaaaaagt gtgtggcagt tcccccttg 1800
 cttgctctct ctcttctgct ccaccatggt aatatgtgct tgcttctcct ttgccttcca 1860
 ccatgattgt aagtttctg aggccttcca gccatgcttc ctgttaaacc tgtggaaccg 1920
 tgaatcaatt aaaacttttt tattcat 1947

<210> 993

<211> 3511

<212> DNA

<213> Homo sapiens

<400> 993

agaggcgcag gcggcggagg cggctggggg gtccggaagt caacaccatg tcaagtctgc 60
 acaagagccg aattgcagat ttccaggatg tcctgaagga gccctcaatt gcattggaaa 120
 agctgcggga actcagcttt agtggaggtt gtgccagac atttccttct tccagagggc 180
 cactgactac ccttgccctc tcatactgga cccccagaat gagtttgaaa cccttcgtaa 240
 gagagtggaa cagacgacac tgaaatctca gacggtggcc cggaaccgga gtgggggtcac 300
 aaatatgagc tccccacaca agaactctgt gccatcatcc ctaaagtgt atgaggtgct 360

gccaatggc tgtgagggc actgggaggt ggtggagcgg atcctgttca tctacgcaa 420
gctcaaccct ggcatcgctt atgtgcaagg catgaatgaa atcgtggggc ccctctacta 480
cacctttgcc accgaccca atagtgagt gaaagagcac gccgaggcag acaccttttt 540
ctgcttcacc aacctcatgg ccgagatccg ggacaacttt atcaagagcc tggatgactc 600
gcagtgtggc atcacctaca agatggagaa ggtttactcc accttgaaag ataaggatgt 660
ggagctctac ctgaaactgc aagagcagaa catcaagcct cagttctttg ccttcgctg 720
gctgacactg ctgctgtccc aggagtctt gctgcctgac gtcacccgca tctgggactc 780
cctcttcgcc gatgacaacc gctttgactt cctcctctc gtctgtgctg ccatgtctat 840
gctgatccgg gagcagttgc tggaggggga cttactgtg aatatgcggc tgctgcagga 900
ctaccccatc acagatgtct gccagatcct gcagaaagcc aaggagctcc aagactcaaa 960
gtagcccggc ggcaagaggc ccacgttcgg gagagaagcc tcccgacct gtgccctggc 1020
tcccgggaca catagaaacc tgtaggaacc cagcctgagg ggaagccaca ggatcggccc 1080
gagaccagg ccatgcccac tggggacaca ctgtgccgtg ctcttctgc cgccacgccc 1140
agctccccac ctgccctgca ctctgccctc ttgcccagg atactgagga gggctggagc 1200
tcgggaagtt gtccttctg ggccagggcc gtttctggca ctgggaggct ggcaggggcc 1260
cctccctgcc tcggctctgc cgcccagcc tcagttcctg cttctggtct tctcctgggc 1320
tccactcagg ggaggtgctt ggccaatggg ccagaaaccg cttctgagcg gggcacttcg 1380
gctgtccac aggaaggcg aactgaaag ctgagtcctg ccgtctgtct caccacaga 1440
tgtctgtagt cggtcggtgt gaatgtgggc ccaagtcccc aggcatttc tccgtgtgtg 1500
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtagggag tgagggtctc 1560
tcaggcctcc aggtctcca gcccctcctt ctctgtctct acctctctgc ctgtctcctt 1620
ccacctcctt cccagagtgg gactgtgtct tgcctcatga ttctctctc cattactctc 1680
cctgcccttc tctgttgggg tgccttatcc tgagccacct cctctccccg cttgcctctg 1740
ctcccctgaa cctgggagac agatgaggag actggctcag caaggcccct ggaggtcaag 1800
cttggccttt gcctcctgtt cccatcccc agccctggct cctaggtcct cccaactggg 1860
aggagtcct ccgtgcctca cttagagggt tctgaaccg ttccctacac agaaatcttg 1920
gaaaccaa at gctgtgtagt aaggatgaag ctttgagcct cctgcccctg ctttctgccc 1980
agggaggag aaggaagg gggagctggt ttttctggag gttccccag aggcctcct 2040
gtccgaaaag aaaaggacct tgattctgag cccagggtcg gaaccattg cttcagaaga 2100

gttgtcattc cctcggttc caggtcccaa cccagggttg ggttgagtga gtcccacaaa 2160
gggcaagtgg ggccccagga agcctctctg gggccagggg tagctgagct taaaggccct 2220
gggtcctgcc agttccagga gggccatgtc tgtgcctctg tgtaccctc caccgctgc 2280
gggctgaggg aggtgcaggg ctttctctga cccctgcctg agctgttccc agggctggag 2340
caggtgtacc ctgagcaggg gcagctggcc actcccagtt ctcaccaagt cacctccctc 2400
cttgtacaag gtttgcgtcc ggaagccggg tgccatagtg aggaccctcg tcctccagac 2460
tggttggcag gagtccagcc ccagcagccc tcctgcccc aaagctttcc gagtctgggtg 2520
ggcaggactt ctgctgccc ttccaagccc ggctttgggc cagaaaaggc ttccccaggt 2580
ggctcttcta ccaggctttt cttttgatgc cgcctggatt tccgcacctg cctgtctcct 2640
ctccagagc acagtgtttg ggagactttg actatttatt cagactcctg gctatgtatt 2700
gcacattggc aagtgtctg gggatgaggc atgggtatag gaaggagaa aggagtggga 2760
gacaagatcc tcttcatttt ccaagatcaa agtcagcctc ttctcccat gcttctagga 2820
actgcctggt tttcaagcag gtcttggtg agcgggctct gagttctgta ctggaattga 2880
gtgtaaagat gggaagagaa ctgggctgac tccaggacct ccaggatgag gcagaggcat 2940
gatgcttctt gctcacctgg gccacctct ctccaggact tgcagctgg tggttcagcc 3000
ccttctcaa ccccttcata agcttgggcc actgcctggg acccagcaga cactgcccag 3060
gactctttag tgcactcact cttgtctgcc ccctacctt cctcctggaa ccacactact 3120
tgaatcacca ttactttgcc tcgctggcag agttgggtca agtgccctct cttgacctt 3180
gagatgaagg tcaagagcac agggaccagg ctttggttag gctgagctcc cagcaggaca 3240
ccgcctgcag aaaggacctg ccctgataat gtcccttccc cagattctca agcagatgcc 3300
caagggaggt cccacagag ccagagtgcc tgaggcttcc tgcttgagaa cctgccccct 3360
ggatcttggg cacttacaga ttgagctgta tgaattcagc gggctctact ccagagggtc 3420
agaacgtttg ctttagtttt ttcactgtt ttgttccttg agtcagtgt gttgatgacg 3480
agttgtcttg aataaatcat gtgttctttg c 3511

<210> 994

<211> 4173

<212> DNA